WORLD'S FINEST

ELECTRONIC SURPLUS

40 ANNIVERSARY TH

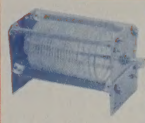
1947 1987

CATALOG WS-87

MANY NEW ITEMS

CHECK EVERY PAGE!

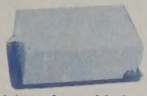
ROLLER INDUCTOR



GATES/HARRIS ROLLER INDUCTOR part of 1 KW transmitter; consists of 0.25" width silver-plated ribbon wound in 21 non-linear turns and forms 4.75"L X 3.63" dia coil. Fiberglass end plates; shaft 1"Lx3/8" dia. O/a 5x4 x9, 5 lbs sh. #938-0505-001, unused, $45.00

COLLINS ANTENNA TUNER

COLLINS 180S-1 ANTENNA TUNER, manually-controlled 1 KW pi network tuner designed for use with KWM-2 and similar 3-30 MHz 50 ohm line transmitters. Includes UCSL-500 4-500 pf vacuum variable capacitor, 26-570 pf air variable capacitor, and 15 uH roller inductor. Controls for ANT OUTPUT C, COAX INPUT C, SERIES COIL. Also SERIES or SHUNT input terminals plus two 500 pf capacitors may be connected in shunt. 10.5x7.8x11.5, 16 lbs. Unused w/book, $185. 350D-3 SHOCKMOUNT for 180S-1, unused, $10.

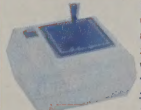


COLLINS MP-1 MOBILE POWER SUPPLY, vehicular power source for KWM-1/2/2A transceivers. Nominal outputs 12 V 6 amp, 265 V 210 ma, 750 V 185 ma, and -50 to -80 V bias from 11 to 16 VDC 30 A input. 3.8x11 x5.8, 10 lbs sh. Unused w/info, $75.00

PRC-25 MODULE TESTER

AN/GRM-55 TEST SET, use to check test points in modules of RT-505/PRC-25 transceiver and to isolate circuit problems. (Indirect tests only of modules A2, A12-13, A19-20.) Includes TS-1755 test unit, MX-4622 probe, CX-8593 cable assy and CG-409 BNC cable. Requires 12.5 VDC 1 W per 5 sec test. 5.5x7x8 10 lbs. Used w/operator's manual, $75.00

JOYSTICKS & PADDLES

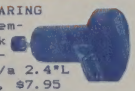


IBM® JOYSTICK for PC Jr®; usable with other computers and equipment. High quality item contains two 100K pots with mechanical mode switches to select spring return or free movement. Also trim adjust for each axis and two "fire" buttons. 1.9" o/a stick length; base 4.3x4x2, 2#. #JS-PCJR, NEW $15.95 ea; 2/$28

KRAFT COMPUTER PADDLES designed for use with PC's; each with 100K ohm adjustable pot FIRE button, and 4.5 ft joined at one male DB15 connector. Each 4.3x x3; 4 lbs. #KR820-005, NEW, $9.95 per pair

ARCADE JOYSTICK, p/o SUPER ZAXXON® by Sega; heaviest-duty metal stick with trigger and four SPST norm-open FIRE buttons. O/a 9x24x10, 18#. #AJS-SZ, NEW, $19.95

6 VDC MOTOR & CHOPPER



MAXON 7-POLE 6 VDC PM BALL-BEARING MOTOR w/1.6"x0.5" chopper assembly for speed control feedback use; approx 120 counts/revolution. Shaft 5/8"Lx1/8" dia; o/a 2.4"L x0.9"D. Swiss-mfg; #MAX-6V-7P, $7.95

COMMODORE MOTHERBOARDS

#VIC-01981 #VIC-01983

MOTHERBOARDS for COMMODORE VIC-20, the ever-popular 5K memory color computer which still has a dedicated following. All components intact. "Some worked, some didn't" when we powered-up a sampling and so we are selling them "AS-IS." Good source of spare parts or, if your a gambler, the basis for cheap computer; 3 lbs sh. Two versions to choose:
#VIC-01981, eleven 2114 RAM; 9 VAC req $14
#VIC-01983 with two M58725 2Kx8 RAM or equal; requires 9 VAC and 5 VDC, $13.50

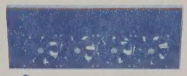
COMMODORE E-64 MOTHERBOARD from the EDUCATOR, a 64K memory computer made by Commodore for the "school" market; same as 1982 version of C-64 motherboard. Units DO HAVE the expensive-to-replace support IC's such as two 6526's, 6510, VIC, RAM, ROM and others. They DO NOT HAVE the RF modulator, video ROM, SID, power switch (or power input socket) and some misc components. Requires 9 VAC and 5 VDC. Buy for spare parts or for experiment! 3 lbs sh. #MB-E64, AS-IS, $19.95

COMMODORE C-16 KEYBOARD, originally p/o the C-16 computer--a short-lived transition computer between the VIC and C64. By switching a few wires, it will work with VIC on most keys. Change info included. 5x15x1.5; 3 lbs sh. #KB-C16 $4.95; if purchased w/VIC board, $3.

RCA VOLTOHMST

RCA WV-77E VOLTOHMST, low-cost all-purpose VTVM with 4.5"W x 4"H meter. Has AC-DC volt RMS ranges 0-1.5-5-15-50-150-500-1500 V; volts P-P 0-4-14-40-140-400-1400-4000 V; resistance 0-1000-10K-100K-1M-10M-100M-1000M ohms. Response 40 Hz-5 Mhz; 11 meg input imped. Less test leads (banana jack-type). Requires 115 VAC 60 Hz; 7.8x5.6x4.8, 5 lbs. Used-reparable, $16.95

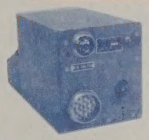
BOXER FANS



QUAD-AXIAL FAN ASSEMBLY, 8x22.5x2 housing with four IMC Super BOXER® WS2107F fans. Each 4.5"x4.5" 7-blade fan rated 115 VAC 27 W 117 CFM; 13 lbs. #4-SBX-FN, NEW $32.95

12 VDC FAN, Rotron Sprint axial 3.1"x3.1"; 1.4 W. #ST12G6, NEW, $12.95
PANAFLO #FBP-06B-12L miniature 12 VDC fan, 2.3" sq X 1.3"D; 5-blade 1.4 W. NEW $10.95

ARN-30D VHF RECEIVER



R-1021/ARN-30D VHF RECEIVER covers 108 to 126.9 MHz AM in 100 KHz steps (190 channels); originally part of air navigation system. 1st IF 11.7-12.6 Mhz; 2nd 1.7 MHz. Electrically turned crystal turrets with frequency displayed on side panel. Adjustable squelch; 300 ohm audio output. 50 ohm input impedance; BNC connection. Tubes 5718, 5840, 5896, 4/5899, 5902, 6021, 6112. Requires 28 VDC 1.8 A and 260 VDC 85 ma. 5.5x11.4x4.6, 10#. Used, $29.95

PP-2792/ARN-30D 28 VDC SUPPLY, mounts on rear and powers R-1021 from 28 VDC input. 3 lbs sh. Used, $15 w/R-1021 purchase.
Operator Manual f/ARN-30D, part-repro $7.50

ORDERING INFORMATION SEE PAGE 2

MINIMUM ORDER $5.00

Fair Radio Sales Co.

P.O. Box 1105 - - 1016 E. Eureka St.

Lima, Ohio 45802

419-223-2196/227-6573

24 Hr. FAX 419-227-1313

CATALOG INFORMATION

This IS the only catalog we will issue this year.

A supplement will be sent in the Fall.

FAIR RADIO SALES CO., INC.

1016 E. EUREKA, BOX 1105, LIMA, OHIO 45802
TELEPHONE: AREA CODE 419 227-6573

LIQUID TEMP
40 -140 F WATER TEMP-METER, 3.8" dia; expanded scale. 15" capillary threads into 0.6" or 0.7" orifice; also 18" capillary pipe. Ille #21223, $9.95

WATER TEMPERATURE METER, 3" dia with 20-240 F expanded scale. W/6 ft copper capillary. #261-9858, NEW $14.

LP-GAS METER, 0-1 VDC full scale. Mounts in 2" dia. hole. Chrome finish #48560-2, $1.50 ea.

DC AMMETERS by Mercer Electronics, 3½x3½; fits in 2⅜" dia hole. FS=50 MV; NEW.
0-300 ADC $7.95
0-600 ADC $7.95

0-50 KV DC & 0-20 VDC scale FS=1 MA DC; 4¾x4 blk face. Mercer Elec mfg. NEW
#MER-50KV-20V, ~~$5.95~~ $4.95

WESTON 1941
or Triplett equivalent: 4.3"x4.8" made f/Western Electric. Mount 2.8"d hole: Used $10 ea
Specify scale:
0-300 VDC, FS=50 MV: 0-300 ADC
0-5 ADC (FS=5 A) 0-50 amps DC. 0-500 ADC

CLEAR PLASTIC METERS, 2-3/8" sq. fit 2-1/8" dia. hole. EMI mfg. Unused.
#D1145-2, 0-5-50 MADC, FS-5 madc, $4.95
D2083, 0-200 VDC, $4.95
#D3630, 0-3 VDC, $4.95

MICROMHOS DYNAMIC MUTUAL CONDUCTANCE USED IN I-177 TUBE CHECKER BASIC 0-1.4 MA. HICKOK #M547A STK# 3F1350 $4.95

TV-2 REPLACEMENT METER, 0-250 SCREEN VOLTS, FS=1 MA. 2½" RD. SEALED. NEW $5.95

DECIBELS

-20-0 and -15-0-+5 DB 3.5" dia blk face; FS=100 ua. $6

-12-0-+4 DB 100 UA FS 3½" RD BLK. RUGG. WAC4586 N $7.95

-15-0-+6 DB, FS=1 ma; 0=1 MW/600 . 2.5" rd sealed $6.

-6-0-+3 DB, FS=200 ua 2.5" rd sealed; used, $4.95

OTHER VALUES IN STOCK, WRITE

POWER SET +6 TO 0 TO-3 2½" RD. FS-200 UA, WAGLINE 1496/400 RUGG/SEAL U $3.95

ANTIQUE 0-10 A DC TEST METER with mirrored 3" scale and terminal posts; Westinghouse PX-14. S.3x4.3 x1.5, 4 lbs sh. Unused, $18.95

47-84 METER ASSORTMENT, five U.S. mfg meters 2½"-3½"-up; mixed odd scales, FS-100 ua and up--no choice $10/asst

PRESSURE METER 0-30-60 in increments of 10; electrical type as used in mil-vehicles. 2¾" dia O.D. green rim; #6620-514-4662, unused, $4.50 ea

OIL PRESSURE, 0-50 increments of 2; 2.5" rd, off-white face. $4250 NEW $4.

ROENTGENS PER HOUR METER 50 MICROAMPERE D.C FULL SCALE 3½" RUGGEDIZED REMOVEABLE PLASTIC LENSE, BLACK FACE.
TOP SCALE 0-500, LOWER 0-10
#300-10764 UNUSED $4.95

BALLENTINE V.T.V.M. METER ONLY AC VOLTS 1-10 DECIBELS 0-20 WESTON 643, 4½" OR EQ.
MFG. PT. NO. 205007 NEW
STK#6625-557-0899 $8.95

VACUUM GAUGE 0-30" vacuum scale (0-10-15-20 not graduated); 2-1/8" dia Marshalltown mfg #EC-324, NEW, $4.50

ME-68/PRC-14 0-200 UA meter consists of 1¾" dia meter in rubberized housing w/U-77 plug on rear. Meter easily removed. 3x1¾ dia; NEW $5.

Other SMALL METERS, 1¾" sq sealed types; used, $6 ea:
#20UA10 0-20 ac FS-200 ua.
#6719 -20-0-+20 ac FS=1 ma.
#M/618S, 0-10 scale FS=2 MA white face; used.
#BA/T195, FS-25 ma, 0-500 scale; black face, used.
#MX/GRC, FS-1 ma black face; p/o RT66-7-8, used.

RUNNING TIME

ENGLER 3.5" rd 6-place to 0.1 hour; 120 VAC 60 Hz. #AC-200-10N, used $7.95
GENERAL TIME 2.5" rd, 220 V 50 Hz; unused $8.

AC CURRENT TRANSFORMERS for AC ammeters with FS=5 amp movements:
#IA-20053, 200 A 5 VA 50-125 Hz; 3.7"d, $8.
#GM-1010, 200 A rated 600 V 3.7" dia, 2 lbs sh. $8.95
WESTON 607 500/5 ratio, 25-800 Hz, 5 VA @ 60 Hz; 4.6x4.6x1.6; 3 lbs. NEW, $20.

STORE HOURS
9 A.M. to 5:30 P.M.
MONDAY THRU FRIDAY
9 A.M. TO 1 P.M. SATURDAY

TERMS

PRICES NET, F.O.B. LIMA, OHIO
SEND MONEY ORDER, CERTIFIED CHECK, VISA, or MASTERCARD with PURCHASE ORDER for IMMEDIATE SERVICE.

We reserve the right to hold an order accompanied by personal or company check until after check clears the banks.

MINIMUM ORDER $5.00
PLUS SHIPPING CHARGES

Include sufficient money for shipping charges. (UNUSED PAYMENTS RETURNED AT ONCE.) Otherwise we will send shipping charges collect.

C.O.D. ORDERS, SEND 50% of PURCHASE with ORDER. CASH BALANCE will be COLLECTED UPON DELIVERY.

When writing for information PLEASE state what specific information you desire.

DESCRIPTIONS
ALL MATERIAL OFFERED IN THIS CATALOG IS IN "USED-COMPLETE" CONDITION, UNLESS QUALIFIED AND/OR NOTED AS "RECONDITIONED," "UNUSED," OR "NEW."
MERCHANDISE IS NOT OPERATIONALLY CHECKED UNLESS SPECIFIED AS "CHECKED."
EQUIPMENT DESCRIBED AS "REPARABLE"--MEANING "ABLE TO BE REPAIRED"--IS ELECTRO-MECHANICALLY COMPLETE, BUT REQUIRES SOME TROUBLESHOOTING BY THE CUSTOMER.

AC VOLTMETERS

0-2 VAC 2¼" dia; Simpson Model 125, used, $4.95

0-8 VAC, 3½" rd; various manufacturers, used $6.95

0-10 VAC 2½" rd. $4.95
3½" rd or sq $5.95 var.mfg.

0-30 VAC 400 Hz 3½" rd; Weston 476, unused, $5.95

30-150 VAC 60 Hz, various mfg: 2½" rd., used, $6.95

SIMPSON 4.6"W x4.1"H LIMIT-SET METERS removed f/equipment, $9.95 ea #SSI-6413, FS=1 MA, 0-10/0-30 VDC indicated; upper & lower limits. #M101/CP95, FS=100 UA, 0-200-600 Roentgens indicated; upper limit set only.

AC AMMETERS

0-150 AC AMMETER, FS=5 amp AC; 3.5" rd. Unused, $9.95

0-125 ACA FS=5 A for 400 Hz; 3½" rd. Hickok $9.95

3.5" ROUND AC AMMETERS, full scale=indicated scale. U.S. mfg. UNUSED:
0-50 ACA, $12
0-75 ACA, $12
0-125 ACA Triplett 331, $14
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0-120 AC amp, FS=3 ACA, $8.

D.C. MILLIAMPS

FS=1 MADC, 0-1.0-50 scale, 3½" rd clear case; Used $5.

0-3 MA-DC, 3½" rd. sealed. #4081, unused, $6.95

0-15 DC MA, 3½" rd sealed; various mfg. Used, $5.95

0-100DCMA 100MA. MOVE. 3½"RD.RUGG. #4265 N $6.95

0-500 MA DC, 3.5" square; Westinghouse. Unused, $7.95

0-200 DCMA SC. 2½" RD.USED #MR252000CMA $3.95

0-200 ma dc, 3½" rd, various mfg. Used, $5.95

0-25 MA DC, 2.5" round, various mfg., Used, $5.95

FS=1-0-1 MA, 100-0-100 indicated; 3.5" rd. NEW $6.95

0-300 MA DC, 3½" rd, clear plastic case. Used $5.95

0-800 MA DC, 3.5" round; various mfg. Unused, $6.95

0-50 MADC, 3½" rd., various mfg., used, $6.95

100-0-100 MA DC, 3½" rd Weston 301; Used, $5.95

D.C. MICROAMPS.

0-200 UADC, 3½" rd, various mfg; used, $5.95

0-200 UADC and -8-0-+6 DB, 2½" rd. sealed, new, $4.95

0-500 UADC, 2½" rd sealed; various mfg. Used, $4.95

0-100 UADC, 2½" rd sealed; various mfg. Used, $4.95

50-0-50 UA movement, 0-9 scale; 2.5" rd sealed, $6.

50 UA MOVEMENT, SCALE -30, 0, 150, POINTER AT ZERO, SEALED, 2½RD USED TRC30150 $4

0-5-10-20 Peak Volts, FS-500 ua; 2½" rd Weston 1021 sealed. Used, $4.50

0-1000 VDC FS=1 ma, 4"x3.5" Honeywell MS3T. Unused $10.

CLEAR PLASTIC FS=100 UA METER with non-linear SWR and 0-20 W scales; 2-3/8" sq face f/2"dia hole. #SWR-020, NEW $4.95

FAN-SHAPED METERS, plastic w/ zero adj. 3" top 2½" bottom; 3" H. Fits 2" dia. hole EMI mfg. Unused.
#EMI-5 VDC, 0-5 VDC, $5.95

JEWELL MODEL 73T METERS, 3½x3 for 2¾" dia hole-NEW
0-15 VDC $7.
0-20 VDC scale, FS=50 mv, $6.95
0-200 ADC, FS=50 mv, $7.95

0-1 PLATE AMPS 3.6"Wx2.5"H Jewel 83T for Drake. Exposed shunt coil can be changed to alter scale. #0-1PA-J83T, NEW $6.

D.C. VOLTMETERS

0-100 VDC, 3½" rd clear plastic case; used, $5.95

0-15-600 VDC, 2½" rd black face; w/mult. code-Used $6.

0-1.5 VDC 2.5" round; DeJur R230 sealed. Unused, $5.95

FS=2 VDC, 0-20-80 MA scale; 2.5" rd. Used, $4.95

0-40 VDC, 2.5" square; various mfg. Unused, $6.95

0-30 VDC, 3.5" round clear plastic; Weston. Used $7.95

0-20 KV DC, FS= 1 ma; 3.5" rd Weston 301. Unused $6.95

0-50 VDC, 3.5" round; various mfg. Unused, $7.95

0-300 VDC, 2½" round; various mfg. Unused $5.95

0-500VDC SC. 3" SQ. #231-1624 USED $5.95

100-200 VDC Hi-Lo range set Westn 1093 2.5" rd. Used $8.

KILOVOLT DC, FS=1 MA:
0-3 KVDC, 2½" rd new $5.95
0-600-1500 2½" rd used $6.

0-6 KV 3.5" rd, unused, $7.

R.F. AMMETERS

0-1 RF amps, expanded 0.6-1 3.5" rd Triplett. NEW, $12.

ART-13 0-5 ANTENNA CURRENT, FS=250 ma; external transformer coil not available; 2½" rd black face. Used $5.

0-100 RF MILLIAMPS with external thermocouple; 2.5" round GE DW-52. Unused, $8.

2.5" ROUND BLACK FACE RF AMMETERS:
0-3 RF A, $8.95
0-8 RF A expanded scale w/6 RF A midpoint, $10.95

DC AMMETERS

0-100 AMPS DC
FS=50 mv, zero adjust; 2.5" high X 2.9" W. WESTON 1921, NEW, $8.95

DC AMMETERS, FS=indicated:
0-3 ADC, 3.5" rd NEW $7.95
20-0-20 ADC, 3.5" rd, $10.
0-30 ADC, 2.5" rd, NEW $9.

BATTERY CHARGE FS=10 A, 6 A redline; 2.5" rd. Unused $4

0-15 AMPS DC FULL SCALE, 2-3/8" square; 2-hole flange mount 3-3/16" across. Emico
#D2877, NEW, ~~$6.95~~ $4.95

WESTERN ELECTRIC 3½" round clear plastic case; used:
0-10 ADC $10. 0-15 ADC $10.

DC AMMETERS, FS=50 mv:
0-200 ADC 2½" rd NEW $6.95
0-1500 ADC 3½" rd used $7.

0-150 A/0-75 V

DC DUAL SCALE, 0-150 ADC/0-75 VDC FS=150 MV; zero adjust. 2.3x2.8, #JB-15075 NEW $5.95

POWER AMP FOR GRC-9

AM-66A POWER AMPLIFIER for RT-77/GRC, first we've ever seen; French-made for NATO forces. Increases RT-77 output to 30 watts AM-CW, 90 W pulse. Uses three 2E22's in PA; with antenna tune meter. Requires +700 V 330 ma, +280 100 ma, +12 V 400 ma, 6.3 V 5 A, 5 V 230 ma. Non-English dial markings. 16x13x8, 29 lbs sh. Used, $85.00
MANUAL (in English), partial repro, $15.00

AA-18 ALIMENTATION (POWER SUPPLY), provides all the necessary voltage for AM-66A from either 12 or 24 VDC input. Similar size and appearance as DY-88-105; 36 lbs. Used, $75.

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AM-66A & AA-18 PACKAGE including CD-1086 cable, CX-2031 DC cable, and manual, $165.00

TELEPHONE TONE PAD

ITT TONE KEY PAD, can be used for tone control, signaling, and experiments. Each key produces tone output; characters 0 thru 9, *, #. Requires 9 to 15 VDC; with hook-up info. 3.4x3.3x1.8, 2 lbs sh.
ITT #36006, NEW, $7.95; 2/$15.

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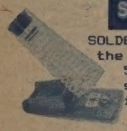
WESTERN ELECTRIC #35AF3A TONE PAD, as above, but removed from equipment, $5.95 ea; 2/$10.

SOLDERING STAND



SOLDERING STAND, handy item for the builder-hobbyist; has 2.6"x 5.3" cast iron base with sponge tray and 5" coil with insulating funnel. 3 lbs sh; #SS-IS-101, NEW, $2.95

D O L L A R D A Z E

PLEASE ORDER BY NUMBER. Unit prices only as indicated. Look for more DOLLAR DAZE throughout this catalog.

* *

45-85 3AG 1 amp FUSES 10/$1;
SLO-BLO 3AG 1 amp, 10/$1.25;
In-line FUSEHOLDERS for 3AG, 5/$1

* *

41-81 LOUD BUZZER HORN as used in smoke alarms; 2" dia x1¼". 6 VDC $1.25 ea;
12 VDC $1.35 ea; 115 VAC $1.45 ea

* *

46-86 DRILL BITS for PC board work; 1/8" shanks. Specify size #59 or #75. 2/$1.50; 10/$5 (one size).

43-83 LINE CORD, 2-conductor #18 gauge as on appliances; 6 feet long, white. NEW, 3 for $1.25

23-77 BRASS COUPLINGS for 3/8" dia. x 3/4" long shafts. 3 for $1.00

48-87 PHONE MODULAR SPLITTER, fits wall mod jack; adds 2nd outlet for computer or answer machine, $1.95 2/$3

44-83 49 Mhz WALKIE-TALKIE PC BOARD, no speaker or mic; 9 VDC req. $1.50 ea, 3 for $3.

49-87 MILTON BRADLEY TOY HEADSET w/boom mic--NO receiver elements; 6 ft cord & mini-RCA plug. NEW $1.50

42-82 RUBBER EQUIPMENT FEET 1-1/8" dia rubber with 1"L #¼x20 bolt; w/o nut. 8/$2.00

47-86 RUBBER EQUIPMENT PADS, 5/16" dia self-adhesive; 40 per sheet. 2 sheets for $1.50

38-79 SPEAKER, 3" dia 8 ohm 3/4 w or similar, NEW, $1.00

RT-77/GRC-9 TRANSCEIVER

RT-77/GRC-9 BACKPACK TRANSCEIVER, covers 2-3.6, 3.6-6.6, and 6.6-12 MHz; Hi-Lo outputs 7/1 watt AM, 15/5 W CW. Receiver section has 456 KHz IF and 200 KHz calibration points. Transmitter is continuously tunable or two preset channels; uses 2E22 tube in power amp. With tubes 2/1L4, 3/1R5, 1S5, 3/3A4, and 3Q4. Requires 580 VDC 100 ma, 6.6 VDC 2 amps, 120 VDC 45 ma, 1.5 VDC 500 ma, and 6.9 VDC 575 ma. 16x13x8, 35 lbs sh. Used, $55.00; Power connector, $4.

+ +

ACCESSORIES for GRC-9 system:
MANUAL for AN/GRC-9, original, $8.50
CD-1086 POWER CABLES, connects RT-77 to DY-88-105 or GN-58, 44" lg $12. 84", $15.
SPARE TUBES for RT-77 "used-checked": 2E22, $4.50 ea. All others, $1.50 ea.

* LS-7 LOUDSPEAKER *

Permament magnet-type has 4" dia cone and 4000 ohm matching transformer in metal box; includes 5 foot cord with PL-55 plug. 4.9x4.9x3.4, 4 lbs. Used, $15.00
LS-203 SPEAKER, similar to LS-7 but looks like LS-166 (p 7), $16.

HS-30 HEADSET w/ CD-604 cord, used, $7.50
T-17 MICROPHONE, used, $7.00; Unused, $12.
J-45 KEY with legiron and cord, used, $14.
MT-350 VEHICULAR MOUNT for RT-77, $15 $7.50
FM-85 VEHICLE MOUNT BRACKET, $10.00

+ LONG-WIRE ANTENNAS +

AT-101 LONG-WIRE ANTENNA, 4.3-12 MHz, $10.00
AT-102 LONG-WIRE, adds 2-4.3 MHz range, $9.
AT-101 & AT-102 LONG-WIRE SET, 5 lbs, $15.00

MS-116-117-118 MAST SECTIONS, used, $3.50 ea
IN-127 INSULATOR BASE, holds 3/MS-116 & 1 ea MS-117-118; 14.5" black plastic, 2#. $10.00
FT-515 BRACKET attaches IN-127 to RT-77, $3.
MP-65 VEHICULAR MAST BASE for MS-116-117-118 ceramic insulator. 17.5" Lg, 4 lbs sh. $12.
CP-12-13 COUNTERPOISE, 4 lbs, $12.00
GY-12 GUY ROPE 20', $2.50; GY-42 2x20' $4.50
M-378 HALYARD, 80', $6. M-379, 10', $1.50

GRC-9 CANVAS BAGS

BG-172 BAG for long-wire antennas, cables, and other accessories; 13x13x10, used, $6.
BG-174 BAG, for mast sections and GN-58 generator legs; 42x10x4.5, used, $6.00
BG-175 BAG for GN-58, 10x8x10.5, used, $5.
CW-140 COVER for RT-77/GRC-9, used, $10.00

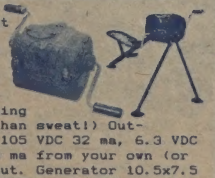
ACCESSORY PACKAGE DEAL

for GRC-9, refer to manual TM11-263 (6/56). All items shown in figure & page #. Used: BG-172 BAG & CONTENTS, figure 5, page 10 except without BX-53; 28 lbs sh. $52.00
BG-174 BAG & CONTENTS, fig 6, p 11; (3 ea MS-116, 1 ea MS-117-118); 28 lbs sh, $45.00
BG-175 BAG & GN-58, fig 13 p 15; 26#, $20.

DY-88 POWER SUPPLY

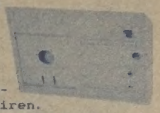
DY-88/GRC-9 DYNAMOTOR POWER SUPPLY, powers RT-77/GRC-9 from 6, 12 or 24 VDC input @ 29/14/6.7 amps max. Usable to power other transceivers. Output: 580 V 100 ma, 105 V 45 ma, 6.3 V 2 A, 1.4 V 500 ma, 6.3 V 575 ma. 13x11.3x9.5, 40 lbs sh. Used, ~~$100~~ $59.50; CX-2031 POWER CABLE, $8.
DY-105 DYNAMOTOR SUPPLY, same as DY-88 except 24 VDC input only; used, $45.00

GN-58 GENERATOR SET



GN-58 HANDCRANK GENERATOR with legs, seat and two cranks; designed to power RT-77 transceiver in field but other uses possi- (An exercise bike for those who want something more from a workout than sweat!) Outputs 425 VDC 115 ma, 105 VDC 32 ma, 6.3 VDC 2.5 amps, 1.4 VDC 465 ma from your own (or friend's?) muscle input. Generator 10.5x7.5 x8; 39 lbs sh. Used, ~~$35.00~~ $27.00

MOTION DETECTOR



MOTION SENSOR, interesting security device that detects change in ambient light. When someone or thing passes through its 15 ft sensing range and disturbs the light enviornment, sensor trips alert siren. Utilizes LM324A op-amp and photo cell tied to a zero (null)-seeking circuit. Grey plastic case; requires (4) AA batteries (not included). 5.5x4x1, 2 lb. #IS-MO-DE, NEW $2.95

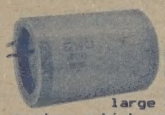
DIP EXTRACTOR

DIP EXTRACTOR PLIERS for easy and non-damaging vertical removal of 4 to 48-pin IC's from sockets or desoldered PC boards. Spring-loaded pliers are made of anti-static plastic with metal extractor teeth; 5x3.4. Techni-Tool #4916, NEW, $5.95; 2/$10.

ACTION JOYSTICK

with fire button; eight direction action. Has 3.5 ft 6-conductor cord with DB-9 connector; rewire for computer/game machines. 3.6x4.6x 3.1, 2 lbs. #MA-ACT-JS, NEW, $2.95 ea; 2/$5.

PIEZO CRYSTAL



PIEZO CRYSTAL CYLINDER for use in pressure or sound experiments. These unusally large 3.4" dia X 5" long crystals produce a high potential when subjected to pressure change caused by weight and temperature change. When audio frequency is applied crystal responds from 1.5 Khz with a peak at 12 KHz (3500 ohm impedance) and a peak at 17 KHz (230 ohms). Dips and peaks occur throughout the audio and ultrasonic range. Cylinder wall 0.4" thick; can be sawed with difficulty into smaller sections. Originally used in underwater detection system; 7 lbs sh. #P-XTAL-86, removed, $27.95

VACUUM CAPACITOR

RF VACUUM VARIABLE CAPACITOR ASSEMBLY, consists of UCSL-1000 7-1000 pf 3 KV max vacuum variable with 28 VDC drive motor and gear assembly. Will run on 6 VDC and up. 8x6.8x3, 7 lbs sh. #C501/180L, used, $69.95

+ +

UCS-300-7.5 VACUUM VARIABLE ASSEMBLY with 9-300 pf 7.5 KV max vacuum variable with 115 VAC 400 Hz motor drive; 7 lbs. Used, $75.00

RIBBON INDUCTOR

VARIABLE RIBBON INDUCTOR with motor drive; p/o Collins 180L antenna tuner. Consists of two 5.4"L x 3.375" dia coils with 288" of drawn silver ribbon (0.125"w x 0.01"th) wound between; approx 28 uH. Ribbon is transferred from one coil to the other as a 28 VDC motor turns both. O/a 9.3x5.8x5.8, 10 lbs sh. #L401/180L, used, ~~$34.95~~ $29.95

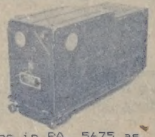
PLANTRONICS HEADSET

PLANTRONICS StarSet II ultra-light OPERATOR'S HEADSET, improved contoured earpiece, 3-position volume integrated into amplifier plug, and SoundGuard protection from unexpected loud telephone line noise. Also coil cord with PJ-7 dual plug, set of six different sized earplugs, and carrying pouch; almond color. 3 lbs sh. #HSO308-1, NEW, ~~$44.95~~ $35.

SONOBUOY RECEIVER

R-1170/ARR-52A VHF RECEIVER 162.5-173.5 MHz AM, FM and video using 31 crystal-controlled channels. Solid-state sonobuoy receiver consists of five plug-in modules; 26 MHz 1st IF, 5 MHz 2nd IF. Conversion possibilities for 2 meters, VHF weather, satellite TV, etc. (See Oct '74 CQ Mag.) Requires external control and 18 VDC. 7.5x2.5 x10, 9 lbs. Used, ~~$39.95~~ $29.95; SCHEMATIC, $4 w/set. MANUAL, partial repro, $15 w/set.

ARC-45 UHF TRANSCEIVER



RT-295/ARC-45 UHF TRANSCEIVER designed for light aircraft and employs 12 preset channels in the 225-399.9 MHz AM range; 1 watt minimum transmitter output. Receiver IF's: 23.49-24.39 MHz and 2.98 MHz. Audio out 50 mw into 150 ohms. Uses 2/5893 tubes in PA, 5675 as doubler, 7077, plus 28 other miniature and sub-mini tubes. Requires 150 VDC 115 ma, 300 VDC 130 ma, 27 VDC 1.7 amps. 5.3x8x14.3, 19 lbs. Used-no crystals $75.00; Schematic $5.

SB-328/AR CHANNEL SELECTOR, for ARC-45; 12-position channel select, tone button, volume, and 2 pilot lights w/327 lamps. 2.5x5.8x4.3, 3 lbs. Used $5.95; Unused, $9.95

COMMAND TRANSMITTERS

Command transmitters with proper use can put out 50 watts CW and 30 watts phone. Modulation is obtained from either of two separate units, BC-456 for single tube modulation or MD-7 for push-pull. The 575-600 VDC 175-200 MA and 24 volt power requirements were originally satisfied by the 24 VDC DM-33 dynamotor which mounted on either modulator. The transmitters use a 1629 "eye" tube for tuning and crystal calibration plus tubes 2/1625 and 1626. Size: 5x7x12, 17 lbs. sh.

BC-457/T-20, 4-5.3 Mhz, reconditioned $19.95

WRITE for availability of other Command Transmitters and companion receivers!

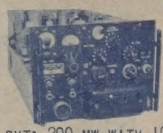
MC-215 SPLINE for remote tuning, 6 ft, $1.50
DM-32 DYNAMOTOR, 25 VDC f/receivers, $4.95
MT-77 MOUNT for BC-442/RE-2 relay box, $3.00
FT-232 SHOCKMOUNT for FT-234 rack, $5.00
FT-234/ single transmitter rack, $3.25
FT-227/MT-70 SHOCKMOUNT f/FT-226 rack, $2.50
C-48 TUNING CONTROL, panel style for ARC receivers 190-550 Khz; MC-215 required, $8.
C-22 TUNING CONTROL, 108-15 MHz, used, $7.95
BC-451 TRANSMITTER CONTROL, 1 to 4 xmitters; built-in key, mode, mic jack, unused, $5.00
BC-496 DUAL CONTROL, 3-6 and 6-9 Mhz dials for BC-454/BC-455 pair; unused, $7.95
BC-450 TRIPLE CONTROL, 190-550 Khz, 3-6, and 6-9 Mhz dials for BC-453-454-455; unused $8.

R-19/ARC AIRCRAFT RECEIVER, 118 to 148 Mhz continuously tuneable. No dial; designed for remote tuning with spline shaft. IF-15 Mhz. With tubes 9002, 3/9003, 14A7, 2/14R7, 14F7, and 12A6. Uses accessories similar to ARC-5 Series. Requires 250 VDC 60 ma and 24 VDC. 6½x5x11¾; 13 lbs. sh. Used, $18.95

R-11A RECEIVER, 190-550 Khz. Similar to R-19 but has 85 Khz IF and tubes 2/14A7, 14S7, 14R7, 14F7, and 12A6. Used, $12.95

R-10 BROADCAST BAND RECEIVER, 550-1500 KHz, similar to R-11. Used, $24.95

ARC-39 RECEIVER-XMITTER



RT-427/ARC-39 RECEIVER-TRANSMITTER, REPLACES COMMAND SETS; COVERS 2.0 TO 9.1 MHZ IN TWO BANDS; SIX CRYSTAL-CONTROLLED FREQUENCIES PER BAND. RF OUTPUT: 10 WATTS MIN. INTO 10 OHM LOAD (100 PF). 100% AMPLITUDE MODULATION; AUDIO OUTPUT: 200 MW WITH 1000 UV 30% MODULATED INPUT; 800 MW MAX. BANDWIDTH: 8 KHZ @ 6 DB DOWN. METER INDICATES RELATIVE RF OUTPUT TO THE ANTENNA. WITH TUBES 0B2, 2/12AT7, 4/5749, 5750, 3/5686, 4/5814, & 3/6159. POWER REQUIRED: 28 VDC 4.4 AMPS WHEN RECEIVING; 8.5 AMPS TRANSMITTING. SIZE: 7¾x10¾x21¾; SHPG. WT: 42 LBS. PRICE: USED, COMPLETE, $49.50
MANUAL FOR RT-427/ARC-39, REPRODUCTION, $10.

225-400 MHZ CONVERTER

AM-914/TRC AMPLIFIER-CONVERTER, originally used with military R-417 receiver as plug-in for the 225-400 Mhz range. Continuous tuning of RF and oscillator; 30 Mhz I.F. Unit has conversion possibilities as discussed in R. Grove's article in 10/80 issue of CQ magazine. With tubes 5670 and 4/6J4. 7½x6½x9½, 17 lbs sh. Used, $34.95

AM-1179/GRC, 50 to 100 Mhz, $39.50
AM-913/GRC, 100 to 225 Mhz, $39.95
AM-1177/GRC, 400 to 600 Mhz, $44.50
AM-3203A/GRC, 1.35 to 1.875 Ghz, $49.50

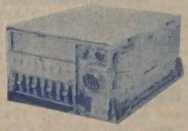
AM-1178/GRC AMPLIFIER-MULTIPLIER, used in T-302 transmitter for 400-600 MHz FM range. 100 W out f/4X150A and 4X150G. 12x6x14, 45 lbs. Used $75.
AM-1180/GRC, 50-100 MHz, one 4X150A, $49.50

BC-AS-229 RECEIVER, 201 to 398 Khz and 2500 to 7850 Khz using plug-in coil sets. Uses tubes 37, 38, & 4/39's. Requires 230 VDC 80 ma and 12 V. 8x7x16, 15 lbs sh wt. Used, less tubes & coils $9. With tubes/no coils, $16.95

Unused (no coils), $24.95
PLUG $3. TUNE KNOB $2. MANUAL, repro $8.50

ARC-3 AIRCRAFT RADIO

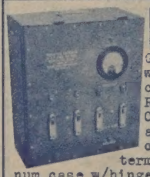
T-67/ARC-3 TRANSMITTER, post-WW-II VHF set covers 100-156 MHz AM using 8 preset crystal-controlled channels; 8 W power output. Uses DC-11 -16-26 or CR-1 type crystals (not included). With tubes 2/832, 2/6L6, 3/6V6, 6J5, 12SH7. Requires 24 VDC and 410 VDC 325 ma. 7.5x12.3 x15.3, 24 lbs sh. Used, ~~$24.95~~ $19.95



R-77/ARC-3 VHF RECEIVER, companion to T-67 and also operates on 8 preset crystal-controlled channels (not supplied.) With tubes six 6AK5, 3/12SG7, 2/12SN7, 12SH7, 12SL7, 12A6, 12H6, 9001, 9002. Requires 24 VDC and 210 VDC 210 ma. 6x11x14.3, 24 lbs sh. Used, ~~$22.95~~ $18.95

SCHEMATIC for T-67 or R-77, $1.50 each.

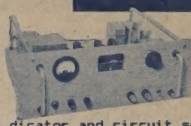
PHANTOM ANTENNA



GP PHANTOM ANTENNA as used with WW-II 350-9050 Khz aircraft ransmitters to monitor RF at remote point. Has 3½" rd 0-10 RF ammeter, 10 KV 0.0002 and 0.0003 mf G2 mica xmitting capacitors, 12-nickel-plated terminal posts in 14x12x9¾ aluminum case w/hinged top; 22 lbs. Unused ~~$35~~ $28.

T-363/ARC VHF TRANSMITTER, 132 to 148 MHz AM five channel crystal-controlled; operates from 24 VDC input. 5 W output; companion to R-19 receiver. 4.5x4.5x6, 6 lbs; used, $16.

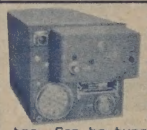
ANTENNA COUPLER



CU-872 ANTENNA COUPLER, handles upto eight receivers in the 2-32 MHz range. Gain: 0 to 3 db. Noise figure: 6 db or better. Has 0-50 microammeter test indicator and circuit selector switch on front. 70 ohm input; type N connections. With tubes 20/6922, 0B2. Requires 115/230 VAC 50-60 Hz. 7x19x16.5, 40 lbs sh. Used-reparable, $49.50
MANUAL for CU-872, partial repro, $8.50

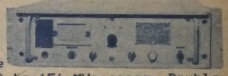
225-399.9 MHZ RECEIVER

R-278 RECEIVER, 225 to 399.9 Mhz AM; crystal frequency control for 1750 channels in 100 Khz steps; ten preset channels. Audio freq response: 200 Hz-20 Khz (wide), 200-5 Khz (narrow). Has AVC, squelch, and 44 tubes; unitized chassis, rackmount. 12¾x19½x20, 115 lbs sh wt. Used, less guard channel, reparable, ~~$125~~ $100
MANUAL, partial repro, $15. Schematic, $2.50



R-836/ARN-59 DIRECTION FINDER RECEIVER, same as Aircraft Radio Corp R-30A DF receiver used in light aircraft. Covers 190-1750 KHz in bands 190-400, 400-840, and 840-1750 KHz; replaces AN/ARN-6 radio compass system. Can be tuned using push-on knob or remotely using C-2275 control box (not available) and MC-215 spline. IF 142.5 KHz; with tubes 2/5718, 5896, 5/5899, 3/5902, 2/6021, 6112. Requires 24 VDC 1 amp, 110 VDC 90 ma, 125 VDC 20 ma; also 13 V 100 Hz for loop selsyns if used for DF. Voltages originally supplied by DY-107 dynamotor (not available) 4.5x4.5x10.3, 9 lbs sh. Used, $19.95
OPERATOR'S MANUAL, $3. SCHEMATIC, $2 w/set.
MC-215 SPLINE, 6', $1.50
ID-637/ARN 3" dia COMPASS INDICATOR, $8 w/set

R-518 VHF RECEIVER



R-518/FRR-27 VHF RECEIVER, single-channel crystal-controlled reception of AM or tone signals in the 100 to 156 MHz range. Double conversion with IF's of 23 MHz and 3 MHz. Audio output: 1.5 watts into 200-600 ohms; 50 ohms ballanced antenna input. W/squelch and tubes 3/12AT7, 2/6AU6, 5654, 2/6AV6, and 6005. Requires 115 VAC 60 Hz; 6x19.5x18.8, 45 lbs. Used, $40. Manual partial repro, $10.

R-748/TRC VHF RECEIVER, single channel crystal-controlled in the 132-150 MHz AM range; 1st IF 20.7 MHz, 2nd IF 5 MHz. Has built-in speaker and controls Volume, Sensitivity, and Squelch. Selectivity +/-20 KHz 6 db down; 52 ohm input impedance. Front panel hinged for access to RF chassis; tubes 2/0B2, 4/6AK5, 6AQ5, 6AX5, 2/6BA6, 2/6J6, 12AT7, 12AX7. 115/230 VAC 50-400 Hz; 5.3x19 x13.3, 34 lbs sh. Used $29.95;, Schematic $2.

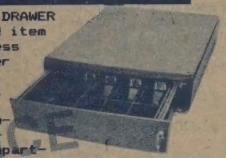
FSK CONVERTER-INDICATOR

CV-1612 FSK CONVERTER & IP-725/FRA-86 INDICATOR SET, originally used with two R-390A receivers as part of large RTTY communications system; usable with any one or two receivers having IF's of 455 KHz. CV-1612 has selectable frequency shifts of 250, 500, 500, 1000, 400, and 850 Hz plus position for optional frequency. Input bandwidth 1-2-4 Khz plus optional; has two 1.8" VU meters. IP-725 has 3" CRT display for monitoring either one or both signals. Two 150 VDC 150 ma modular supplies in IP-725 powers it and CV-1612; requires 115/230 VAC 50-60 Hz. Each unit 7x19x15, 125 lbs sh wt. Used-reparable with schematic, $150.00

PAGING HORN

OUTDOOR PAGING HORN with sealed voice coil and 5" dia aluminum horn. Rated 15 watts 8 ohms. Includes mounting bracket. O/a 4¾" deep, 4 lbs sh. #BZL-0518, NEW, $9.95

PLASTIC CASH DRAWER



RUGGED PLASTIC CASH DRAWER with keylock; a good item for the small business man or flea marketeer who wants to better organize and protect his or her receipts. Brown slide-out drawer has black removable tray with 13 compartments for currency, coins, checks, receipts, etc., adjustable dividers, and five spring-loaded currency retainers. Handsome texured black case has reinforced top. 5x19x21.8, 18 lbs sh. #PL-CD-685, NEW, ~~$59.50~~ $35.00

NASA CONTROL PANELS

GROUND/GROUND INTER-COMMUNICATIONS PANEL apppears to be high quality NASA surplus; has twenty-four 0.8"x 1.2" Microswitch AML Hall-effect switches w/28 V lamps, 6-16 V sink. These switches are bounce-free type for use in digital circuits. Also has mechanical matrix 16-key keypad, 1.75" dia speaker, three Bourns 80-Series pots (25K/25K, 10K/10K, 25K/500) w/knobs; 6.3x11.5, 4 lbs sh. #GG-COM-PL, removed, $12.95

GROUND/AIR/GROUND CONTROL PANEL, has Microswitch AML Hall-effect switches: four 0.8" sq and four 0.8x1.2" single circuit, eight 0.8x1.2" dual circuit switches, plus four red and four red/green-dual LED's. Display/driver board has sixteen HP-5082-7740 7-seg 0.3" socketed displays, 3/ULN2004, 2/74C14, 14511, 14514 IC's. Button inscriptions can be re-worked. 4.3x11.5, 2 lbs sh. #GAG-PL, removed, $9.95

DUAL RUNNING TIME

Two ENGLER 2.9" dia 115 VAC running time meters with 5-digits + tenth hour indication, Sodeco 115 VAC 7-digit counter and three reed relays all in 3.5x8 x3.3 black metal box; 3 lbs. #2RTM-CB, used, good-condition $14.95

PROJECT ENCLOSURES

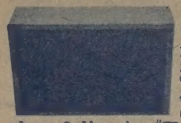
#SA-1499 TERMINAL BOX, usable as 3.5x7x5 project box; has two conduit holes one end, two connectors on other. Inside 15-term 3/4" barrier strip and P&B MH230D 12 VDC sealed relay; steel, 5 lbs. Used, $2.95

#JB-416161 STEEL JUNCTION BOX, 4.1x6.1x6.1 with three knockout holes on each side for conduit. Dark gray; 5 lbs sh. NEW, $4.50

#ENC/ROMII ENCLOSURE, designed for portable test instrument; cover telescopes and slide-snaps over slant-style bottom. Top handle and rubber feet on back and bottom. Slanted section 2"D min to 3.8"D max; o/a 8x8.5x5.3, 3 lbs. Unused, $5.95

ALUMINUM ENCLOSURE and frame from antenna coupler. Adapt as-is or re-work; 7.5"H x 10"W x 10"D. Front has cut-outs for 1-3/4" sq meter and two connectors. Also removable 4.5"x2.5" insulator. 8 lbs sh. #ENC/180L, $6.00

SPEAKERS



BOOKSHELF SPEAKER in walnut-grained vinyl-covered 7x10½x2¾ enclosure. Has 4" dia 16 ohm 1 W speaker and 6 foot cord with RCA plug; 2 lbs sh. #ER-WD-SPK NEW $4.50 ea 2/$6.

SPEAKER PAIR in PLASTIC ENCLOSURES, each 4" dia 16 ohm 1 W speaker in attractive 6¾x6¾x5¼ enclosure with 6' cord and RCA plug. White & black plastic per pio; 4 lbs sh wt. #ER-PL-SPK-PR NEW $3.95/pr

SPEAKER WRAP for assembling 10½x20x4 walnut-grained vinyl-covered enclosure; no grill cloth. 7 lbs sh. #ER-SPK-ENC, 2/$2.00

3 X 5 SPEAKER, 2 watts with 1⅝" dia magnet. Specify 8 or 16Ω 1 W; 1 lb, $1.35; $95/100

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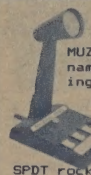
100 - 500 LOT PRICING available on all above.

PAGING MIC



MUZAK MBL MULTI PAGE MICROPHONE, dynamic 150 ohm mic is designed for paging and features switching for three page zones plus one "all-call" switch. Usable with amplifiers having input impedance of 50 to 250 ohms; 60-10000 Hz frequency response. With four SPDT rocker switches and 10 foot 8-conductor cord; 3 lbs sh. #MBL-MIC, NEW, ~~$24.95~~ $19.95

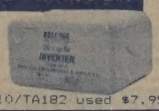
3-WAY FOOT SWITCH

WOLLENSACK DELUXE 3-WAY FOOT CONTROL, large "play" pedal switch has two smaller bar-type switches for "rewind" and "fast forward". Switches are each rated 15 amp 115/230 VAC or 0.5/0.25 A 115/230 VDC; 6 foot four-conductor cord included. 14.5x7x5.5, 2 lbs sh wt. #FSW-A0548, NEW. $8.95

FULL RANGE

4" DIA HIGH QUALITY 8 OHM FULL RANGE SPEAKER, heavy 3" dia x 0.9"H magnet for cone. Excellent sound; 1 lb 10 oz net, 3 lbs sh., #AST-180-040, NEW, ~~$8.95~~ $7.50

20 HZ STATIC RINGER



20 HZ INVERTER MODULE, used in telephone equipment to produce 20 Hz 65 volt 50 ma ringing signal from 110 VDC 65 ma input. 3.4x2x3, 2 lbs. #E10/TA182 used $7.95

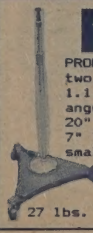
PROJECT BOXES

ALUMINUM TRANSIT CASE, originally for test meter but easily adaptable for your project; interior 11.6"Lx8.2"Wx5.3"D. Hasp fasteners; one pair retain top cover. O/a 14.3x 10x7.4; 6 lbs. #CS-TCC-11, used, $6. 2/$10.

PROJECT CHASSIS, nice 10x 12x3.5 size w/capacitors 50000 & 4700 mf 25 VDC; 7 lbs. #CH-3REG, used, $4.

#CS-48, steel outer CASE-ENCLOSURE for BC-191/375 tuning units; black finish, no top. 7.8x16.8x7.9, 3 lbs sh. $3.00 ea; 2 for $5.

TELESCOPING STAND



PROFESSIONAL QUALITY TELESCOPING STAND two 20" long chromed sections; bottom 1.1" dia, upper 0.9" dia. Steel triangular base has 2" dia casters and is 20" across caster to caster. Removable 7" long bracket can be used to mount small item such as speaker, test instrument, etc. (A third telescoping section could be added to really increase possible uses.) 27 lbs. #2020-TST, used-good ~~$24.95~~ $18.95

TRANSISTOR AUDIO AMP

TRANSISTOR AUDIO AMPLIFIER w/5-transistors, on-off-volume and tone controls. Inputs for ceramic or crystal phono cartridges. Other possible uses as home-brew receiver, intercoms, child's projects. Use with 8 or 16 ohm 3" or 4" speaker. Req 6-9 V AC or DC; with schematic. 1½x2½x3¼. #ER-10-1231 NEW $2.95; 2/$5.00 -100, 500, 1K LOT QUANTITY PRICES AVAILABLE-

ENCLOSURES

STEEL CABINET with lift top for 7"Hx14"Wx8"D panel. O/a 8x16⅝x8¼, 7 lbs. #SK-CAB7148, used, $5.95

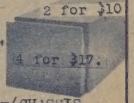
PANEL with miscellaneous parts f/above, $1.50

CY-2126/TRC CABINET w/115 VAC 5" fan on rear; f/panel 19.3"Hx19"Wx14.5"D, 30 lbs. Used $22.

#1313/60 CABINET, 13x19x13 for 12"H panel; top door, 38 lbs sh. Used-good, $14.00

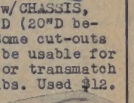
#34-PYE CABINET, 34"Hx21.5"Wx15.5"D f/31.5"H panel; rear door. Steel; 80 lbs. Used, $22.

FYE/CAB CABINET, 16x19x14 space o/a 17½x21x14 blue, used $13.



2 for $10

FILE CABINET for items upto 9⅝" wide X 8¼"H; o/a depth 24". Steel, O.D. green; 14 lbs. $6.



4 for $17.

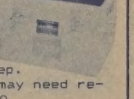
CS-6181 CASE w/CHASSIS, 15½"Wx8"Hx23⅝"D (20"D behind panel). Some cut-outs on front; may be usable for antenna tuner or transmatch project. Aluminum; 20 lbs. Used $12.

CS-1060 CASE w/CHASSIS, p/o small scope; o/a 8"Wx7½"Hx13"D. Front has cut-out for 3"CRT; some parts on chassis. Handle on top; 10 lbs. Used, $8.95

STORAGE CASES

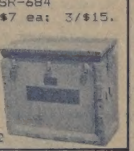
PLASTIC STORAGE CASE, rugged but light with hinged top, hasp fastner, and recessed top grip. Two glued spacers; interior 7.5x6.3x5.3. Handy item for shop; 2 lbs. #CS-PL-SR, used, $2.95, 2/$5.00

CV-425 ALUMINUM CASE with rounded corners; sturdy single compartment construction with hasp-type fasteners. Interior 9.3x x10x5.8, 6 lbs sh. Used $6.00



CY-693/PDR ALUMINUM CASE, four compartments 3.5x4, 7.5x4, 1.8x4, and 13x6.5; may be removed for 13x10 size 9" deep. Hinged top with hasp fasteners; may need repainting. 12 lbs sh; used, $8.00

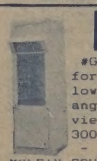
FIBERGLASS CASE with carrying handle and six hasp fastners; lid not hinged. Lower section 13.5x8x9; cover 3.5" deep. Has fittings and rubber shocks to be removed. #FIB-SR-684 11 lbs sh; used, $7 ea; 3/$15.



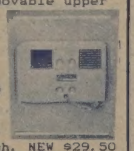
#CS-TH-14 ALUMINUM TRANSIT CASE with hasp fastners; interior 17.5x19.5x8. 22 lbs sh wt; used, $10.00

#CS-URM11 METAL-CLAD CASE, top hinged, side handles and fastners. 10x15.5x12.5, 18 lbs. $12

EQUIPMENT RACKS



#GSQ-19-80 RACK, o/a 80"Hx24"Wx26"D for panel 73x19; has rear door, 24"H lower front door and removable upper angled mount for easy viewing of 7"H panel; 300 lbs sh. Used, $100.



MCLEAN EQUIPMENT BLOWER RACK, rackmount assembly has dual 115 VAC 60 Hz 1.6 amp 1700 RPM blowers, top & bottom slide-in filters, and line cord; 5"D behind panel. 23x19x8.3, 35 lbs sh. NEW $29.50

R-390A/URR HF RECEIVER

R-390A/URR RECEIVER famous military set covers 0.5 to 32 MHz AM-CW-MCW in 31 one MHz bands read directly on mechanical digital counter. 455 KHz final IF; has four Collins mechanical filters allowing 2-4-8-16 KHz selectable bandwidth. Calibration points every 100 KHz; also BFO, AGC, dial locks, 600 ohm audio out, Line and Carrier Level meters. Rackmount; no covers. Requires 115/230 VAC 60 Hz. 10.5x19x16.8, 95 lbs (UPS 2 pkgs). Used-reparable, less meters, $175. CHECKED, complete, $345. Less meters, $295. MANUAL, maintenance, partial repro, $15.00

R-390A "AS-IS", less meters, 3TF7, BFO, and covers; "visually inspected" only, $135.00

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Good used REPLACEMENT PARTS for R-390A.
Specify chassis part numbers when ordering:
AUDIO AMP, reparable $18. Checked, $30.
CLAMPS for gears (specify gear), $1.50 ea
COUNTER DIAL, mechanical, $15.00
CRYSTALS, 200 Khz (when available), $18.
CRYSTALS, specify frequency $10 ea; 5/$35
CAPACITOR C-603 or C-606, $6.00 each
DIAL LOCK assembly with knob, $10.00
DIAL ZERO shaft with knob, $10.00
FILTER, BANDPASS FL-601, $10.00
FILTER, MECHANICAL, checked: 2 or 4 KHz $35
8 KHz, $27. 16 KHz, $20. SET of four, $85
GEARS, #39 or #21, $6.00 ea
GEARS, other than above, $3 ea; 5/$10.00
KNOBS, Megacycle or Kilocycle, $6.00 ea
KNOBS for RF, IF, Audio etc., $1.50 ea
KNOBS f/Ant Trim, Dial Lock, etc, $1.25 ea
POTS for RF/IF, Audio, Meter Level, $2 ea
PTO/VFO assembly (not Collins), checked $40
POWER SUPPLY less 2x25 tubes, $30.00
PTO/VFO if Collins manufacture, $60.
RELAY, ANTENNA, $15.00
RESISTOR TUBE, RT510/ F7/3TF4/3TFV4, $12.
SLUGS for RF transformers, $4.00 ea
SLUG RACKS with springs, $3.00 ea
SWITCH, On/Off/Standby, $5.00
SWITCHES f/front panel except above, $3 ea
TRANSFORMER, audio output, $9.00 ea
TRANSFORMERS, RF or IF, $8.00 ea
IF AMPLIFIER DECK, checked, $150.00
Meters and complete RF decks not available.

CV-157 SSB CONVERTER

CV-157/URR SINGLE SIDEBAND CONVERTER, dual channel converter designed for use with R-390 and R-390A receivers but is usable with any receiver having 455 KHz final IF. Unit will deliver single channel output to operate teletypewiter or facsimile. When twin single sideband emission is used, CV-157 will provide two separate channels of output. one channel can handle RTTY and the other FAX and voice. Input frequency adjustable 450-510 KHz; converter IF center and carrier filter bypass 100 KHz. Separate VU and Carrier meters, SB Select "A-LSB-B/B-USB-A", AGC Select "REC-CAR-LSB-USB-TSB", squelch and drift alarms, and 44 tubes. Requires 105-125/210-250 VAC 50-60 Hz: 15.8x19 x15, 125 lbs sh. Used-less meters, $150.00 MANUAL for CV-157, partial repro, $15.00

2 - 12 MHZ RECEIVER

RECEIVER SECTION from GRC-9 backpack transceiver, 2-12 MHz in 3 bands AM-CW; 456 KHz IF, 200 KHz calibration points. Controls for AF and RF gain and headset jacks. With tubes 2/1L4, 3/1R5, 1S5, 3Q4; less grid bias battery. Requires 1.4 VDC 450 ma & 105 V 20 ma. 5x10.5x6.8, 10 lbs. #RX/GRC-9, used, $28 TRANSISTORIZED 24 VDC SUPPLY adaptable for above; info included. #24VPS-GRC-9, $12.00

FACSIMILE TRANSCEIVER

STEWART-WARNER MODEL 180 DATAFAX TRANSCEIVER, facsimile machine designed to send and receive printed matter and images over telephone lines or private wire. Produces upto six shades of gray. Drum scanner speed: 180 RPM; 6 minute transmission time for 8½x11 message. Receives 1500-2500 Hz signal; 2150 Hz required to activate demodulator. Select manual or automatic operation modes. Uses 200' rolls of facsimile paper (not available). Units tested for basic send-receive; some adjustments may be necessary. Schematic & info packet included. Requires 100-127 VAC 60 Hz. 16x12x21, 70 lbs USED, $85.00

WW-II VEHICULAR RADIO

BC-620 TRANSCEIVER, part of SCR-509-510 radio set as used in World War II vehicular communications. Receives and transmits over 20-27.9 Mhz FM range on any two of 80 different crystal channels spaced 100 Khz apart. Transmitter output: 1.2 watts. Has tuning meter and tubes 1LC6, 1LH4, 4/1LN5 2/1291, 1294, 4/1299. Uses FT-241 crystal-type (not included) and requires 1.5 VDC 0.7 amp, 90 VDC 45 ma, 7.5 VDC 0.3 A, 150 VDC 45 ma. Size: 12x16½x21½, 40 lbs. Used, $59.50

CS-79 BATTERY BOX for manpack use of BC-620 or BC-659; 17 lbs sh. Used, $6.
SCR-509/510 MANUAL, partial repro, $10.
SCR-609/610 (BC-659) MANUAL, $7.50
TS-13 HANDSET, $14.00 with purchase of set.

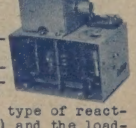
WW-2 BACKPACK RECEIVER

BC-728 RECEIVER. WW-II portable or vehicular unit for the 2 to 6 Mhz AM range; four push-button tuned bands 2-2.6, 2.6-3.5, 3.5-4.5, and 4.5-6 Mhz. Has volume control, phone jack, and built-in speaker. Requires 2 VDC 1.85 amp input originally supplied by BB-54 battery (not available). W/tubes 3/1T4, 1R5, 1S5, 3S4, and vibrators VB-8-9. Radios part of SCR-593; reconditioned for the Italian Army. 11.5x6.3x5.5, 26 lbs sh; $49.50

AN-75 WHIP ANTENNA for BC-728 w/carrying strap; extends 12"-84", $12 w/set.
FT-338A VEHICULAR MOUNT, 8 lbs, $12 w/set.
CD-618A BATTERY CABLE, $5.00 w/set.
MANUAL for SCR-593, partial repro, $8.50.
VB-8 or VB-9 VIBRATORS for spares, $2.00 ea.

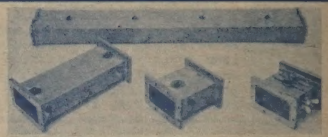
SWR INDICATOR CIRCUIT

STANDING-WAVE RATIO INDICATOR CIRCUIT, assemble a SWR meter using this 1½" square 0-10 scale (FS=2 MA) meter with filters and rectifiers and a modified Schering bridge. One pair of bridge arms is resistive, the other capacitive. In theory the bridge circuit is balanced when the antenna is tuned to 52 ohms resistive resulting in a zero reading on the meter. SO-239 connector. Bridge: 2½x2½x1; 2 lbs. #M701/CU-991, $8.95



PHASE AND LOAD DISCRIMINATOR, could be useful in tuning an antennas system, if used in circuit with a sensitive zero-center microammeter. Phasing and loading discriminator produces ±DC voltages proportional to the reactance of a system. Phasing output shows the type of reactance (capacitive or inductive) and the loading's indicates the amplitude of impedance referenced to 52 ohms resistive. In both cases zero DC output is ideal (may not be obtained in practical circuit). A third output is proportional to relative antenna current. 2x3x3; 2 lbs. sh #T201/CU-991 w/diag., $4.95

3.7-4.17 GHZ WAVEGUIDE



COPPER WAVEGUIDE, 2"x1" size for the 3710 to 4170 Mhz range; Western Electric manufacture, removed from telephone installations. Filters are tuned to preset frequency; adjusting screws can be reset to desired frequency. No further information available.
#1301-Series FILTER with four adjusting screws; 18¾" length, $24.95
#1303-Series FILTER, two top and two side adjust screws; 6-11/32"L, $17.95
#1300-Series FILTER, one top and one side adjust screw; 3-5/32"L, $12.95
#400-Series TUNER, two ¼" dia adjust screws; 2¾" long, $14.95

#ED51566-30 TUNER/TRANSDUCER, two ¼" dia adjust screws, one 3/8" dia screw port; 2-7/8" long, $16.95

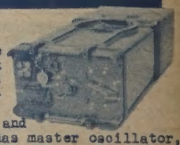
#J368330K1 XMTR AMPL, dual section 2-5/32" and 1¾" variable internal port; o/a 4¼"L, $19.95

#ED63919-31 AMPLIFIER with 416B tube with 3/8" dia screw port adjacent to tube grid cap; assembly silver-plated brass. O/a 5¾x3½x1-3/8, 4 lbs sh. $27.95
Mating 6-prong connector, $2.00

WW-II MINE DETECTOR

SCR-625 MINE DETECTOR SET, famous World War II unit designed to detect anti-tank mines buried at depth upto 24". Detection indicated on meter attached to handle or audibly by the M-356 resonator. Set includes C-446 13" dia x 1" search coil, BC-1140 control, BC-1141 amplifier, M-350 handle, M-356 resonator, BG-151 bag, CH-156 transit chest, and manual. With tubes 2/1N5 and 1G6. Requires two "D" cell batteries and BA-38 battery (not available) which supplied 103 and 67 VDC. Units are in good physical condition, but because of their age we do not guarantee their operation. 49 lbs sh wt. Used. ~~$75.00~~ $59.50

CANADIAN TRANSCEIVERS



CRT-1/CPRC-26 CANADIAN PORTABLE TRANSCEIVER, six channel unit for use in the 47 to 55.4 FM Mhz range. Receiver consists of RF amp, xtal oscillator, mixer, 4/IF amps, limiter, discriminator, and audio amp. Transmitter has master oscillator, modulator, power amp w/3B4. Uses tubes 2/3B4, 5/1AD4, 5692, and 3/5678 all of which are in sealed plug-in modules except the 3B4's. Modules are reparable Receiver sensitivity about 2 uv, deviation 15 Khz. Transmitter output 300 MW. Receiver requires 1.5 V 550 ma 45 V 12 ma, 90 V 30 ma; transmitter 1.5 V 850 ma, 45 V 8 ma, and 90 V 30 ma. (Battery not available.) With battery box but less crystals. O/a 3x4¾x10¾, 5 lbs. Used ~~$12.95~~ $9.95

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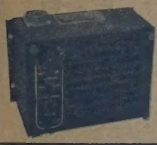
Accessories for CPRC-26: SCHEMATIC, $1.50
AT-5001/PRC ANTENNA, collapsible with flex base; 11"L folded, 47" extended. $3.00 ea.
CP-1/PRC COUNTERPOISE, rubber insulated 4 ft long wire w/split pin plug; use as counterpoise and/or trailing wire antenna. 2/$1.50
#CAN-C/PL CABLE & PLUG to convert U.S. H-33 handset to Canadian for above, $2.50
H-5002/PRC HEADSET, one 300 ohm element, $4.
MODULE SPARES, unused; specify RF OSCILLATOR, IF AMP, MODULATOR, AF AMP --$1.50 ea, 10/$10

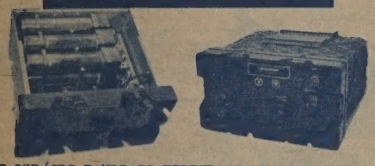
LS-166 SPEAKER

LS-166 SPEAKER housed in cast-aluminum case with cable and U-77 audio plug for use with RT-70/AM-65 and similar family GRC/VRC radio equipment. 4" dia speaker has heavy-duty PM magnet; also 600:8 ohm audio transformer and Hi-Lo switch. 5x5x3.3, 5 lbs. Used, $12.00



TCS SPEAKER-CONTROL UNIT, has 5" dia permanent magnet 6 ohm speaker, 500 to 6 ohm audio transformer, volume control, headphone and mic jacks, and three toggle switches. 5¼x7½x3½, 8 lbs. #TCS-23270, $12.95

BANDPASS FILTER



F-237/GRC BANDPASS FILTER, designed to operate from 54 to 70.9 Mhz using dial tuning. Bandwidth: 250 Khz @ 3 db points or 4.5 Mhz @ 40 db points. 50 ohm output and input impedance. Unit consists of a 3-gang variable capacitor coupled to 3 sets of three sealed cavities. Type C connections. F-237 has conversion possibilities for 6- and 2-meter amateur apllications. An article about these by W. Tucker, W4FXE, appeared in 12/80 issue of Ham Radio. 5x11½x11, 17 lbs. $19.95

CODE PRACTICE SET

AN/GSC-1 CODE PRACTICE SET designed for student practice of Morse code, accommodating upto 10 keys. Hand keying produces either an audio tone with adjustable volume and pitch or a blinker flash. Has effective range of 40 ft. if background noise is less than 60 db Can be operated from 6, 12, 24, or 115 VDC or 115/230 VAC. With built-in speaker, blinker, volume and pitch controls and tubes 6X5 and 2/6AK6. Keys not included. 13½x18x11; 58 lbs sh. Used. $14.95; MANUAL, $7.50

PHONE JACK STRIPS

TELEPHONE JACK STRIP. 24 jack paors plus a monitor jack/pair; adjustable 6x26 terminal block on chassis rear. 3.5x19x15, 15 lbs. #J-2098, used, ~~$28.95~~ $22. #J-2097 JACK STRIP, 24 pairs, 3x26 terminal block; 2.8x19x15, 12 lbs. Used, ~~$20.95~~ $15. #24-SWB-PP, similar to J-2097 except no chassis or 3x26 terminal block; 2.1x17.8 x3.8, 6 lbs sh. Used, ~~$18.00~~ $14.00

BANDPASS CAVITIES

FULL-LENGTH TWIN-CAVITY BANDPASS FILTERS, 9-1/8" length; gold-plated. Similar to filters described in W4FXE's article in 2/80 Ham Radio Magazine. 8 lbs sh wt. $22.00 each

F-239/U (58.5-67 Mhz)
F-240 (67-76 Mhz)
F-241 (76-84 Mhz)

SHORT-LENGTH twin-cavities, $17.50 each.

	F-201/U (284-314 Mhz)
F-196/U (184-205 ")	F-202/U (314-344 ")
F-199/U (224-254 ")	F-203/U (344-374 ")
F-200/U (254-284 ")	F-204/U (374-404 ")

TA-1/PT TELEPHONE

SOUNDPOWERED TELEPHONE SET WITH AUDIBLE AND VISUAL CALL SYSTEM. PALM OPERATED GENERATOR PUTS OUT APPROX. 100 V. THAT SOUNDS BUZZER IN OTHER PHONE AND ACTUATES VISUAL INDICATOR. COILED CORD WITH PUSH TYPE BINDING POSTS FOR INTERCONNECTING WIRES TO BE FASTENED TO. COMES WITH FIBER CARRING CASE. SIZE:8¾x3¾x3½; WT: ACT 2LB USED $25.00 EACH

OSCILLATOR

TRANSISTORIZED CRYSTAL OSCILLATOR and BUFFER, 56 to 99 Mhz with 75 C temperature controlled oven. Requires 5th overtone HC-6 (20 pf) xtal (not incld). Has external oscillator input and tuning meter and oven output. Requires 12-18 VDC reg. for osc., 22-39 VDC 1 amp for heater. W/BNC and two submini 27 (UG-1465) connectors, power input DEC 9P connector, and schematic. 6¾x2x3¼, #OSC99828, $8.

MAGNETO PHONES

MAGNETO TELEPHONES for two-wire communications from a fixed location to another. Desk and wall types available; each with handcrank ringing generator, bells, and standard handset w/common U-1 and T-1 elements. 3 V required for voice circuit; Northern Electric mfg. Black; used-checked.
#D-NE-MPH desk-type; 6x6.5x8, 9#. ~~$44.50~~ $34.
#W-NE-MPH wall-type; 5.8x9x4.5, 9#. ~~$45~~ $35.

FIELD TELEPHONE

EE-8 FIELD TELEPHONE, portable hand-ringing magneto type for use where radio communications are not feasible. Two or more can be used in two-wire system up to 17 miles in length. Connect with two conductor wire; GN-38 handcrank generator signals transmission and MC-131 bell alerts of call. Two "D" cells required to operate TS-9 handset. With carrying case and strap. 8x10x3.5, 19 lbs. Used, ~~$50~~ $40. MANUAL, $5.

TA-43 FIELD TELEPHONE, rugged light-weight unit replaced EE-8 and can be used with them. Includes G-42 handcrank generator, BZ-3 clacker call-signaler, H-60 handset, and canvas carrying bag w/strap. 12x7x4, 12 lbs. Used-checked, $65. MANUAL, repro, $8.50

RM-39 FIELD CONTROL

RM-39 CONTROL UNIT, allows EE-8 or similar field phone to remotely transmit and receive AM and CW radio communications. Has GN-38 handcrank generator, MC-131 bell, selector for Telephone-Through-Radio-CW, and plugs & jacks for Headset, Key, and Mic. Requires 4.5 V, 15 V, and 3 V from batteries (not available). 5x6x9.3, 16 lbs sh. Used, $14.95; CS-76 CANVAS BAG, $5. MANUAL for RC-289 including RM-39, $7.50

WESTON 370

WESTON MODEL 370 PORTABLE AC-DC METER, scale 0 to 5 amps AC or DC with rated accuracy of 0.25%. Large 5" mirrored scale; nice cherry-finished wood case. 8.3x10.5x5.5, 10 lbs. #370-5ACDC, used, $45.

TURRET ATTENUATOR

VARIABLE COAXIAL TURRET ATTENUATOR, 0 to 60 DB in six DB steps. Utilizes individual silver plated attenuation elements for each range engaged with a pull-rotate-push movement of the knob; 5.5" dia dial and female "N" connections. 7"Lx5" dia.; 6 lbs sh.Lorch #VA 112-6, used, $49.50

LANGUAGE LAB RECORDER

LANGUAGE LAB TAPE RECORDER, solid-state design; made by General Electronics Lab. Has three heads: one playback only master head on one track and the other two, playback and record, on a second student track. Uses standard ¼" audio tape on upto 7" reels at speeds 3¾ and 7½ ips. In practice, one can monitor the master "instructor's" track while recording responses on the student track. The student track can be played back simultaneously or separately from the master track depending upon control selection. The master track, which plays in one direction only, can be recorded upon or erased by switching plug-in wires from the student track heads. Besides its original usage, the recorder could be useful for code practice of for sound-on-soun sound audio experimentation. Audio response approx. 300-8000 Hz. Controls for student and master volume, playback-practice select, pause, and the other standard recording functions. Also three motors for very rapid fast forward/rewind, audio level meter, footage counter, 4" built-in speaker, and four plug-in circuit cards for audio, master audio, student audio, and bias oscillator. Uses common 2N2836 and 2N3702 transistors. Tape and reels not included; microphone and schematic not available. Requires 115 VAC 60 Hz. 18x16½x8½, 36 lbs sh. Schematic included. Used, reparable, $19.95; Checked, $45.00

TELEPHONE TEST SET

I-142/PTM-6 TELEPHONE TEST SET, measures characteristics of telephone and related equipment including these operations: 1. Sound source for mics and receivers; 2. Efficiency test for mics and receivers; 3. Capacitor test for leakage resistance; 4. Generator test; 5. Ringer test; 6. Insulation test; 7. Dial test indicating percent of pulse period; 8. Continuity test; 9. Instrument tests such as 600 ohm circuit for sound-powered equipment; 24 V. DC-AC res. circuit for common battery phones; impedance matching circuits for carbon and magnetic mics and receivers. Meter has scales -10 to +6 DB and 0-100 VDC. Requires external batteries for 3, 12, 24, and 135 VDC. Batteries not available. 19x12 x9, 46 lbs sh. I-142, used, ~~$59.50~~ $49.50
TS-903/PTM-6A, more recent; 65 lbs., $65.00

AM-4531 POWER AMP

AM-4531/GR VHF LINEAR POWER AMPLIFIER by Granger Associates; designed for 120 to 152 MHz range to deliver 50 watt output from 10 W input. Uses 8122 tube in P-A. Has 2.5" rd multimeter with seven position switch to monitor Plate to 2 KV, Screen to 1 KV, Plate RF Peak to 1 KV, Bias to -100 V, Forward Power to 100 W, and Reflected Power to 100 W. Also 2.5" rd 0-300 ma Plate Current meter, Loading and Coupling controls each with lock, and Bias Adjust. Requires 105/115/130/210/230/260 VAC 47-400 Hz. 7x19x14.5, 50 lbs. Used-not tested, $150.

Headsets — Telephone Equipment — Microphones — Handsets

HS-23 HEADSET, 2K ohm using R-14 elements and unused grey plastic headband; 4½' cord w/plug. Less cusions, $9.25

HS-23 w/HB-7 brown headband (not U.S. mfg), 18" cord and PL-354 plug, WRITE

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4" CHAMOIS CUSHIONS for use with HS-23 or HS-33, #M301 NEW $4.00

RUBBER CUSHIONS #MC-162 2⅝" $1.00
MX-41 2⅝", $1.25

HB-7 HEADBANDS: Grey $3.25; Br $3

CX-1334 CABLE, adapts H-113 or CW49505 to GRC-equip (JK-26 jack and U77 plug, $4.

#2A/CAN3538 dynamic headphones, 125 ohm imped;

MOVING COIL-TYPE, QUALITY REPRODUCTION. ADJUSTABLE CANVAS STRAP FITS ON TOP THE HEAD; STEEL-BAND BEHIND. WITH CHAMOIS CUSHIONS, MY" CORD, AND PHONE PLUG.
UNUSED, $5.95

H-33/PT HANDSET with U-77 plug; for use with GRC-3--8 PRC-8-9-10, & related equipment. 5' cord, 2 lbs sh. Used-checked, $15.00 ea

Western Electric Sound-Powered 1024 ohms D-173016 trans.

new $3.00 ea.

Carbon Elements
F-1 Mic. $1.50
Lip Mics: M-51 M-6 M419 etc. $1.50
Telephone elements: U-1 or T-1, $2.00

T-17 MIC, CARBON 35 TO 90 OHM PUSH-TO-TALK: PL-68 ON 5' CORD. Used, $6.95 Reconditioned, $12.00

RS-38 MIC, 100 ohm carbon; w/PL-68 4' cord NEW $8. Used w/ coil cord $7 New, not U.S. $6.

HS-230 HEADSET w/250 ohm elements as used in HS-30; soft 3½" velour cushions, leather headband, & 18" cord w/PL-54 plug. Unused, $9.95

H-113/U HEADSET 600 OHM SOFT PLASTIC EAR CUSHIONS 18" CORD W/ PL-54 PLUG THAT FITS JK-26 JACK (SEE CD-307 EXTENSION CORD ELSEWHERE ON THIS PAGE) WT: 3LBS. USED-EX $5.95

CW49505 HEADSET like H-113 except black and has provision for snap-on CW-51071 lip mic listed below.
Used-excellent $4.95

CW-51071 LIP MICROPHON 100 OHMS IMPEDANCE W/ 2 SNAPS FOR FASTENING TO H-62 HEADSET, 14" CORD W/ PL-291 PLUG INTO EXTENSION CORD CD-318 LISTED ON THIS PAGE OR CW-49561 EXTENSION CORD LISTED BELOW USED $1.00

JK-38 PHONE JACK FOR INLINE USE, TAKES TWO PL-55 PHONE PLUGS $1

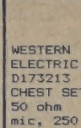
PUSH BUTTON SWITCHES FOR HANDSETS THAT USE BUTTERFLY TYPES. DIRECT REPLACEMENT. #5930-327-7308 $1.25

H-63 HEADSET & BOOM MIC, 600 ohm receive & 100 ohm M51 mic elements; w/ JJ-055 & 3-pin jacks. 3 lbs sh. Used, ~~$12~~ $9.95

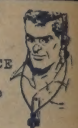
AN/GSA-6 CHEST GROUP, push-to-talk switch SA-142 & CX-1077 cable with U-77 plug connects H-63 with GRC radios. Includes canvas straps; 2 lbs. Used ~~$8.00~~ $5.95

CARBON MICROPHONES 50 OHM F-TYPE PRESS TO TALK No. C-3 (LEFT) 4' CORD PL-55 PLUG UNUSED $4.95
M-2/10A/1422 (RIGHT) 4½ FT. CORD PL-68 $3.95

SWITCHBOARD CORD 4½' w/PL-47 #BD-96 $1.50



WESTERN ELECTRIC D173213 CHEST SET 50 ohm mic, 250 ohm HS-30 headset, 7' cord w/PL-58 plug; 3 lbs. Unused, $15.



HS-30 HEADSET 250 OHM IMPEDANCE hearing aid type light weight headband 7½" cord w/spade lugs that wire into CD-604 or CD-605 cord for 4000 ohm
Used, $7.50

TS-10 SOUND-POWERED HANDSET with 65" cord and clips; 3 lbs sh. Used-checked, $25.

#M-236-6A SOUND-POWERED CHEST MIC, push-to-talk, 18' cable; 6#. Unused $10.

TS-9 HANDSET with butterfly switch as used on EE-8 and similar field phone equipment; 2 lbs. Used, $9.95

H-23 HANDSET, push-to-talk; cord w/PL-68 & -55. Like TS-13; unused, $16.

T-45 LIP MIC

J-45 LEG IRON w/ J-37 KEY includes 5.5' cord w/PL-55 plug. 4 lbs sh. Used $14. Leg iron only, NEW $5.

T-30 THROAT MIC.

T-45 MICROPHONE CARBON TYPE 100OHM 50DB BELOW 1 MILLIVOLT, FLAT RESPONS WITH PL-291 2 CONT MALE PLUG, 11"CORD Unused, $3.00

CD-508 CORD ASSY for headsets w/ SW-141 switch, PL-68 plug, and JK-48 jack; like CD-318 but SW-141 does not "lock". Unused, $4.50

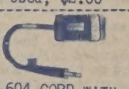
CX-2950 CORD, 10' PL-55 one end and PL-68 on other. Unused, $2.50

CX-2951 CORD, 10' with PL-68 on both ends, $2.65

PL-68 MIC PLUG 30" Used, $1.00

JK-33 JACK TO FIT PL-68 MIC. PLUG. Used, 3 for $1.00

CD-307 CORD EXTENSION FOR CORDS WIT PL-54 PLUG AS USED ON HEADSETS, 65"LG WITH JK-26 JACK & PL-55 PLUG.
Used, $2.00



CD-604 CORD WITH IMPEDANCE MATCHING TRANSFORMER 500OHM TO 4000, USED WITH HS-30 HEADSET, 6" CORD & PL-54 PLUG.
Unused $1. Used 60¢

CD-605 CORD SAME AS CD-604 ONLY 30" LG. WITH PL-55 PLG
Used, $2.00

PL-55 PHONE PLUG 30" CORD $1.00

JK-34 PHONE JACK TO FIT PL-55 PLUG
Used, 3 for $1.

"EXTRA-STRETCH" PHONE COIL CORDS: #T425-MOD, 4 ft to 25 ft extension with modular jacks; tan. NEW, $3.95
#B212-LUG, 2 ft to 12 ft with terminal lugs; 4-cond., black. NEW, $2.50

H-133/AIC HEADSET with noise-shielded mic; sound-powered set designed for aircraft inter communications. Has 24" cord with U-93A plug; David Clark mfg, 4 lbs. Used-checked, $40. Less mic, $27.50

BLACK STANDARD TELEPHONE HANDSET & CORD, old style,
Used $5.
Newer-style used $3.00

DOUBLE PLUG D178542 for headset; similar to type 289 and 298. Used, $2.50

COILED CORD SET

COILED CORD SETS

Three conductor, 24" to 72" 75¢
12" to 36" 50¢

3-cond. in colors 18"-36"; green, red, lt. blue 50¢ Grey or pink, 3/$1

MIC CORD, 1-wire shielded, 2-wire not; 30"-42", $3.

CONTEMPRA PHONE

Modern CONTEMPRA PHONE, quality Northern Telecom manufactured with key pad, ringer, coil cord, and module jack. Low profile; looks sharp on desk or wall. Specify 1st-2nd-3rd color choice: Gold, yellow, brown, beige, almond, white, green, blue, red, and orange. Nice phones at a nice price "as removed from service." 6 lbs sh. #NE-CON-PH, complete-not checked, $14. 2/$25.

STANDARD TELEPHONE EQUIP.

All of our standard telephone equipment is sold as "used-complete" only unless otherwise noted. Some adjustments may be required so that the equipment conforms to your local telephone company's system.

CALL COMMANDER SWITCHBOARDS, NE-634C-1 or similar with plug; gray, green, or beige colors:
11-line 1-hold ~~$22.95~~ $14
17-line 1-hold ~~$28.95~~ $16

3-LINE 3-HOLD

AE 87 DESK PHONE

3-lines each with "hold" buttons; buzzer-type call signaler using 5823 tubes. With handset, coil cord, 5' cable w/terminal lugs, mount hardware; black, 6 lbs. Unused ~~$27.95~~ $22.95

OPERATOR HEADSET

WESTERN ELECTRIC TYPE 52 OPERATOR'S HEADSET w/BOOM MIC, has single 150 ohm DC res. receive element and 50 ohm mic on 8" boom; 5' cord has WE396A dual PL-55 style plug. 2 lbs sh. Used-excellent, ~~$17.00~~ $15.

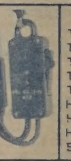
OSLO TELEPHONE, sleek European 1940's phone suggests Art-Deco period; can be used as desk phone or invert for wall mount. Rotary dial, ringer, and cord with terminal lug connections. Not FCC registered; 6 lbs sh. Used. #OSLO-BK, black, $14.95;

A. B. C.

A. TELEX 510-01 HEADSET, 500 ohms; blue vinyl-covered cushions, 4' cord w/mini-plug. Used, $4.95
B. H/88 LANGUAGE LAB HEADSET, 600 ohm; blue vinyl cushions, 4' cord w/phone plug. Used, $4.95
C. H-16/65 HEADSET for noisy environs; 8000 ohm impedance. 65" cord w/PL-54 plug, used, $8.00

FLAMEPROOF KEY

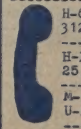
J-5A FLAMEPROOF KEY, early U.S. WW-II vintage; 3-1/8x2-5/8x3/8 phenolic base. Ball-style button; 2 lbs sh. Unused-boxed, $9.95



CD-318 PUSH-TO-TALK SWITCH w/lock. Has 7' cable w/PL-68 plug, JK-26 jack, & straps Use with T-30 throat or T-45 lip mics; 2# sh. Used, $5.

WW-2 ITEMS
TD-3 new $7.
TD-4 new $7.
T-26 new $7.
T-39 new $8.
T-46 new $7.
H-12 new $7.
H-18 un $8.
H-19 un $15.
BE74 used $7

JEN-20 HANDSET w/AMPLIFIED receiver for the hearing impaired; Black, white, or beige. NEW $15.



H-60 HANDSET f/TA-43-312 phones. used $14.

H-189 HANDSET f/PRC-25, VRC-12 Used $12.

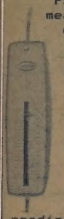
M-80 MICROPHONE with U-229 plug. used $10

M-29 MICROPHONE with U-77 plug. used $5

H-250 HANDSET w/U-229, used, $15.
H-251 HEADSET w/U-229, used, $14.
H-63 HEADSET & BOOM MIC used $12.
H-91 HEAD & BOOM MIC w/U-77, $14.
H-144 HEAD & BOOM MIC w/U-77, $15.
H-161 HEAD & BOOM MIC w/U229, $25.
H-182 HEAD & BOOM MIC w/U-77, $18.

TENSION GAUGES

PRECISION GAUGES for measurement of tension or weight. NEW:



#LP-36 SPRING SCALE, 36 oz X 1/2 oz or 1 KG X 20 G scale; spring assembly 5.5"Lx1.5" O/a 14.3" long Chatillon. $8.

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JONARD #G-50 SPRING ARM center zero, L-R reading; 0-50 grams 5 gm steps. Stainless steel parts; 4.8"Lx1.6"W. $14.95

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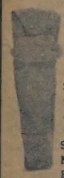
#68B SPRING ARM, center-zero left-right reading; 0-70 grams in 5 gm steps. Not stainless. 6.1"Lx1.6"W. $9.

12 VDC COUNTER

6-DIGIT MECHANICAL COUNTER 12 VDC non-resettable; black numerals on white. Rear mount flanges; o/a1.3"Hx1.5"Wx2.5"D, 1#. #E07B10DC12, NEW, $2.95

CANVAS

BAGS, STRAPS AND COVERS, MAY BE USED OR UNUSED. ALL ARE CLEAN WITHOUT TEARS. SHOULDER STRAPS ARE ADJUSTABLE AND MADE OF COTTON WEBBING.



CW-216 ACCESSORY BAG f/PRC-8-9-10; holds antennas & handset. O/a 19"Hx5"W (tapers to 3"W at bottom) x3.5" deep; w/snap cover and clip for ammo belt. Used, $6.

ST-120 BACKPACK HARNESS & M-1956 SUSPENDERS f/PRC-8-9-10, $8.

CW-206 ROLL BAG for MS-116-117-118 mast sections and related; snap and web strap closure. O/a 40" long x 3" high x5" deep. Used, $7.50

ST-19 CARRYING STRAP, 65" LG. X 2"W; W/2" SWIVEL-EYE SNAP HOOK AND TONGUELESS-BAR BUCKLE NEAR ONE END TO ADJUST LENGTH. $3.00

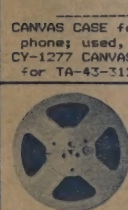
ST-42 CARRYING STRAP, AS ABOVE, NO SWIVEL, $2.50

CW-187 ROLL BAG for AB-21-22-23-24 mast sections; 36" long. Used, $6.00

PRC-25/77 CANVAS, used:
ST-138 HARNESS, $12.00
CW-503 ACCESSORY BAG, $6.
GRC/VRC EQUIPMENT COVERS:
CW-329, adjustable for GRC-3--8, NEW $8.
CW-330 f/VRC-8-9-10 NEW $7

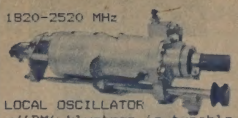
CANVAS CASE for EE-8 field phone; used, $5.00
CY-1277 CANVAS CASE w/strap for TA-43-312, used, $6.00

AUDIO



AUDIO RECORDING TAPE on 7.5" plastic reels; 1 mil 1800 ft. Major manufacturers; bulk erased. 2 lbs sh. #AST7586, Used, $1.00 ea; 5 for $4.

1820-2520 MHz



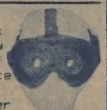
LOCAL OSCILLATOR w/6BM6 klystron in tunable reflex cavity; three probe coupled outputs; requires -300--600 V ref, -300--475 V grid, -300 V beam, & 6.3 VAC fil. 3-BNC conn & info; 12x4x4, 5#. #OSC/R41B, $65.

TIME-O-MATIC SIGN CONTROL, 115 VAC 60 Hz. THREE CONTACTS RATED 15 AMP EACH. TWO ALTERNATELY MAKE AND BREAK ONCE PER SECOND FOR 15 SEC; OTHER BREAKS FOR 20 SEC. AT THE SAME TIME. THEN ALL THREE MAKE AND THE CYCLE REPEATS. SIZE: 3x5¾x6; SHPG. WT: 5 LBS. #53 K-155, $4.95

CARD SCANNER

CREDIT CARD SCANNER, uses optical system to read raised numbers of credit cards into a photo array. Small AC motor drives card through reader; w/connector diagram. 5x5x4, 3 lbs. #ECR2020, used $4.95

HEAD MOUNT MASK masks extraneous light during low light viewing of instruments--nice Halloween mask, too! Rigid rubber w/velcro adjusting straps. #5855-179-8583, unused, $4.95



TX CHASSIS

XMITTER CHASSIS for 2-12 MHz range; p/o GRC-9 set described elsewhere but "demilitarized" by "whack" on the tuning control. Still a good source of quality switches, coils, and other RF parts. Less tubes and indicator; 10.5x10.5x6.8, 18 lbs sh. #TX/GRC-9-D, "AS-IS", $7.95

12-DIGIT FLUORESCENT DISPLAY, 3/8" digits 0 thru 9,-,-,', and decimal point. Tubes 2"H plus IC's, transistors, etc. 9x8.5x2.5, 4 lbs sh. #POS-2, ~~$6.95~~ $3.50

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12-DIGIT FLUORESCENT DISPLAY, 5/16"H characters, 1-5/16"H DG-10A tubes; 21 xistors, IC's, etc. 5.3x3.4 3 lbs. #DP-3304, ~~$4.~~ $3.00

INDUCTOR PC BOARD has 3 200 uH and 2 1200 uH inductors 3/4"H x 1-3/8" dia; also 3/4000 mf 20 V, 3/3000 mf 25 V axial caps, xistors etc. 3 lbs. #54-014535, $2.

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TALLY OSCILLATOR with ferrite coils, 81.9-72.5-44.7-42.9-35.6-34.9-30.2 mH and 39/ 50 V caps 0.001-0.47 mf and 9/2N3565 xistors. $2.00

HONEYWELL HUMIDIFIER CONTROL as used on home humidifiers. Plastic element tape senses 10%-70% humidity and closes normally open 120 VAC contacts depending on setting of variable control. Shaft 1x¼ dia; o/a 1x1¾x4⅛. #H46B1150 NEW $1.95

THERMAL SWITCH opens 30 sec. after cooling. Operate 130 vac. 2m ohm res. 1½x1¼, 20" leads. M-4199 $1.50

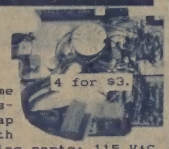
HEATING ELEMENTS

NICHROME 650 WATT HEATER WIRE-COIL, 8 ft long; 2 lbs. #NHC-650W, NEW, $3.95

BRYANT STRIP HEATING ELEMENT, 120 VAC 150 watts; 1⅛"W x 8"L including mounting flanges. 2 lbs sh. #6115-931-7883, NEW, $2.95

LOOP COIL TYPE, 9" LONG; 115 VAC 30 w. #83975, $2.00

TIMER BONANZA



CARTRIVISION TIMER CONTROL, part of early home video system; cheap gizmo with interesting parts: 115 VAC timer motor with upto 8 hr delay and SPDT contacts, 18 V 200 ma transformer, 12 VDC SPDT relay, SPDT and 4PDT slide switches, etc. 3.9x9.5x2, 2#. #CV-TC87, $1 4 for $3.

LONG DURATION TIMER WITH 115v RESET RELAY. 115v 60 HZ 1/16 RPM MOTOR. CAM ACTUATES SPDT MICRO SWITCH. 3½x2½D. UNUSED $2.95

ILLUMINATED CLOCK MECHANISM AS USED ON CLOCK RADIOS. CLEAR PLASTIC FRONT TO TRANSMIT LIGHT, NO HANDS. HAS 60 MIN TIMER ALSO HAS ON-OFF-AUTO ALARM 2"SQ FACE. 115v 60 HZ. Unused, ~~$1.50~~ $1.00; 5/$4.

SYNCHRON CLOCK MECHANISM, No.610 110 v. 60 CYCLE 3 WATT 1 RPM #EC-129RB, WITH GEAR ASSY, NO RESET OR COVER. 2x2x2¼; 4oz. $1.35

50-87

TIMER ASSORTMENT, 5 various timing device; mixed voltages, mixed speeds. $2.50

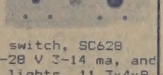
Tx-Rx CASE LEATHER CASE for handheld transceiver; snap-flap for attaching to belt. Interior 8" deep X 3"W top tapers to 2.75"W bottom X 1.5" thick; right-side cutaway for control access. Quality made in USA by Merzon; o/a 10.5"L, 2 lbs. #19430217P11 NEW $7.50

3" DIA 0-360 INDICATORS, usable for QST antenna position project. I-81, 5 markes, used $8.95 ID-637/ARN, 2 marks and VAR knob, unused, $10.95

PARTS GALORE

TELEMETER PROGRAM SELECTOR part of an obsolete pay TV system which featured prerecorded tape program review, coin deposit register mechanism, and audio amplifier-power supply with 4" speaker. Generates 8 Mhz signal to trigger mechanism and 35 Mhz video output. Tape magazine has recording head and plays 66' of ¼" tape in continuous loop. Mechanism has 5 RPM Cramer 115 VAC motor plus other motor, gears, etc. Power supply output 150 VDC 100 ma and 6.3 V 3 amps. Tube line-up 3/6U8, 6BE6, 6BA8, and 12BH7. Cabinet 15x7x7, 21 lbs sh. Our bargain price is worth the tape magazine, coin mechanism, power supply, or tubes alone. NEW, $6.95

KEY ALARM



ALARM CONTROL PANEL w/5-position key lock wafer switch, SC628 Sonalert 6-28 V 3-14 ma, and five panel lights. 11.3x4x8 2 lbs. #ALRM-SC628 w/key, $7

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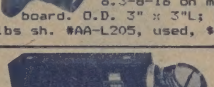
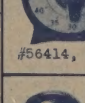
205 MM

COPY LENS apertures F4.5 -5.6 6.3-8-16 on mtg board. O.D. 3" x 3"L; 2 lbs sh. #AA-L205, used, $8.

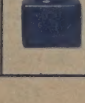


ID-68/APA-44 AIR SPEED INDICATOR; CONTAINS A KOLLSMAN TRUE AIR SPEED METER AND A INDICATING WITH A RANGE OF 84 TO 434 KNOTS. HAS OSTER MOTOR AV-240, RELAY, 1/6AK5 TUBE, COMPENSATING DEVICE PLUS MANY OTHER COMPONENTS. 15x7½x5; 20 LBS. USED $10



RHODES 60 SEC TIMER, times from 2 to 60 seconds; bell signals time elapsed. 3" dia plastic case; 1 lb sh. #56414, NEW, $2.50 each.

24 V BELL



ALARM BELL, 3" dia bell operates from 24-36 VAC or DC; o/a5.3x3x1.3, 2 lbs Western Electric #7-AW, unused $6.95

I-82 RADIO COMPASS INDICATOR, 5" dia, 0-360 increments, and AY-54 autosyn. Use in antenna position projects (see 9/79 QST). 4 lbs sh; used-good, $22.00

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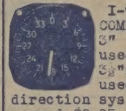
MC-507 SELSYN-INDICATOR, transmitter unit usable in wind direction and beam locator systems. Has 3" dia 0-360° scale 5° steps; 12-24 VAC 60 Hz req. 2 lbs. $8.95 2/$15.

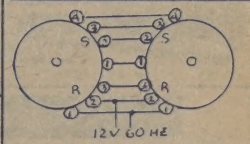


I-91(*) RADIO COMPASS INDICATOR 3" 360 deg. sc. used w/ARN-6 sys. 3⅜"x3". (can be used with wind direction system) used $9.95 NEW $14.95

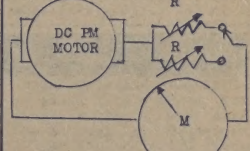
PILOT INDICATOR

MG-2 PILOT'S INDICATOR for bomb NAV-system. Separate scales 150-0-150° TURN and 360-0-360° TIME TO GO. Two Sperry selsyns mounted in line; 24 V 400 Hz originally but works on 12 V 60 Hz with some response loss. 10x3.8" dia, 4 lbs. $15.95

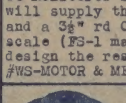
WIND DIRECTION



WIND DIRECTION INDICATOR using Bendix AY-100 autosyn xmitter. Design a wind vane and indicator so that you can monitor wind direction from inside your house. #3969-AY100 NEW $9.



WIND SPEED INDICATOR using a 24 VDC PM motor as a generator, a 1 milliammeter and a resistor range scaler so that wind speed can be monitored indoors. We will supply the PM motor and a 3½" rd 0-1.0-50 scale (FS-1 ma) meter; you design the rest. #WS-MOTOR & METER, $7.95



AY-1 AUTOSYN MOTOR AS USED IN I-81, I-82 ETC. DIRECT REPLACEMENT. $5.95

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I-81 & I-82 ARMATURES ONLY #3H2716/A1, UNUSED, $3.95
I-82 GLASS ONLY, $2.00

SMALL INVERTER SUPPLY

TRANSISTOR INVERTER POWER SUPPLY, input 24 VDC 500 ma; output 110 VDC 60 ma. Can be used to supply B+ for low power tube type receivers. Transformer has 286 VCT 70 ma secondary. Other uses possible with modification Reduced output at lower input voltages. Schematic included. 3½x3x2, 2 lbs sh. #522-1091-004, used-checked, $9.95; used-defective $4.95. DA-15S PLUG to fit above inverter, $1.50 ea.

MICROCOMPUTER SUPPLY

POWER SYSTEMS MICROCOMPUTER SWITCHING POWER SUPPLY, made for one the "bigs" in the micro circus who quit the "show"; outputs +5 V 7 amp, +12 V 3 amp, -12 V 250 ma, -5 V 300 ma from 115/230 VAC 50/60 Hz input. Made in 1984 so is the very latest design for your micro or other project. 7.8x4.4x1.5, 2 lbs. #PS1558 NEW ~~$27.95~~ $24.95

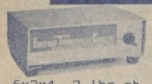
NORTH ELECTRIC MODULAR POWER SUPPLIES, stable solid-state units removed from equipment. All 115 VAC 60 Hz input; outputs -5% @ 40 centigrade. Appearance varies from picture; 20 lbs sh wt approx.

#N65006A	5.0 VDC 35 amps	$45.00
N11006A	6.0 VDC 3.5 amps	$12.00

ELECTRO MODEL 50 18-22 VDC 2 amps $20 $15
PMC PXC-C-36 36 VDC 2.3 amps ~~$22~~ $16
LAMBDA LH-122 0-20 VDC 5 A; meter, used $45
T-BAR #5000-M974 24 VDC 6 A rackmount, $35.

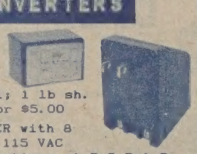
SPERRY #4113281 SUPPLY, outputs +48 VDC 5.5 amps, +6 V 5 A, -12.5 V 2.5 A from 115/230 VAC in; rackmount, 45 lbs. Unused, ~~$50~~ $35.

12-14.5 VDC SUPPLY



CB POWER SUPPLY, regulated 12-14.5 VDC 500 ma continuous; 1500 ma intermittent. With 6' AC cord and replacement On-Off switch. 6x2x4, 2 lbs sh. #CB-PS-12, NEW, $7.95

POWER CONVERTERS



ASTEC DC - DC CONVERTER designed for PC board mount; +5 VDC input produces -12 VDC 85 ma output. 1.2x1.5x1; 1 lb sh. #AA7210, $2.95 ea; 2 for $5.00

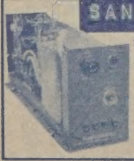
PLUG-IN WALL TRANSFORMER with 8 VAC 750 ma output from 115 VAC input; lug output connections. 1.5x2.5x1.5, 1 lb sh. Potrans #WP410608, $1.95 ea; 2/$3.

POWER HEATSINK

POWER UNIT HEATSINK ASSEMBLY, 5.3x4.8.x1.1 plate with three 2N3055's, two diodes, On-Off switch, and fuse; 3 lbs sh. #AE-HS-3T, used, $2.95

TRANSFORMER & DIODE ASSEMBLY with Signal 24-4 transformer which has two 12 V 4 amp secondaries. Also two 200 V 40 A diodes, two 300 V 25 A SCR's, and a P&B 120 V 50-60 Hz DPDT relay w/10 A contacts. W/schematic. 10½x3¾x3¼, 8 lbs. #ASI-M912VPS, $12.95

SANGAMO DC SUPPLY



SANGAMO DC POWER SUPPLY, output +5 VDC 2.5 amps and ±12 VDC 250 ma from 115 VAC 60 Hz input; transformer-type. Modular-style chassis w/On-Off switch, fuse, and marked output terminals. 5.1x4.1x13.3, 9 lbs. #S/NG-696515, used $10.00

PP-68-B VIBRATOR SUPPLY, 100 to 110 VAC 60 Hz 15 or 50 watt output from 6 VDC 6/13 amp (15/50W) or 12 VDC 3/6.5 A input. With 66" cable. 9.8x11.3x8.8, 34 lbs. Unused, $33.00
PP-68, older style, used-chked $23

MRC-66 DC to DC SUPPLY has two separate DC to DC transistor inverters operated by 24 VDC input: Output "R" -70 V bias, +100 VDC 20 ma, and +200 100 ma. Output "T" +200 VDC 150 ma 70 VDC (isolated +,-) 75 ma, and 6 VAC 5 amps. Inverters in separate boxes which can be removed and used independently. Also has 24 VDC control relays, Reg-Ohm regulator for 6 VAC, locking cabinet with cover & key, plug, and schematic. 9¼x6x16, 21 lbs. $22.00

LAMBDA DC SUPPLIES

LAMBDA MODULAR POWER SUPPLIES, 105-125/210-250 VAC 47-63 Hz input; outputs +5% @ 40 C. Used-good cond: #LOS-Z-5, 5 VDC 3 amp 4.8x4x2 3 lbs $14.95

12/24 VDC 22/11 A

CPP-2 POWER SUPPLY, output 12 VDC 22 amps or 24 VDC 11 amps. With mains and load control and output mode indicator lights. Input: 90-130 VAC 60 Hz. Size: 11x16¾x10½, 90 lb sh wt. Used, ~~$65.00~~ Now $45.00

DYNAMOTORS

DM-21CX used	$20	DA-1 used	$12
DM-32 used	$4.	DA-6 re-new	$10
" re-new	$5.	DA-14 re-new	$10
DM-35 re-new	$20	DY-10 used	$14
DM-36 re-new	$7.	BD-83 re-new	$10
DM-53 used	$6.	PE-73 re-new	$30
DM-53 12 V	$7.	PE-86 re-new	$8.
DM-64 used	$10.	PE-94 re-new	$20
D-10A used	$5.	PE-101 used	$7.
D-401 re-new	$8.	PE-133 used	$10

TCS 12 VDC Rx-Tx DYNAMOTOR SUPPLY, outputs 220 VDC 100 ma & 400 V 200 ma; 30 lbs. #TCS21881, unused $25.

INVERTERS

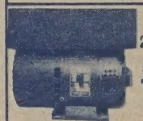
JACK & HEINTZ INVERTER #AN-3532-2 INPUT 27.5 VDC @ 20 AMPS. OUTPUT 115 VOLT 400 CYCLE, 3 PHASE, 250VA VOLTAGE REGULATED. SIZE: 12x7½x4½; WT: 20 LBS. FED#6125-617-0967
Used, $18.95

PU-7 INVERTER

INPUT: 28 VDC 160 AMPS.
OUTPUT: 115 VAC. 400 CYCLE 21.6 AMP. 1 PHASE
SIZE 19½x8x10½; 100 LBS.
PRICE: UNUSED $49.50

GE #5D21NJ3A INVERTER, INPUT: 27 VDC 35 amps OUTPUT: 115 VAC 400 Hz 1 ø 485 watts. 8.5x5.8" dia; 15 lbs sh. Used. $34.95

MC-149H INVERTER
INPUT: 24 VDC 36 A. 750 VA.
OUTPUT: 115 V. 400 CYCLE 1 PHASE 500 VA & 26 V. 400 CYCLE 1 PHASE 250 VA.
SIZE: 12x8½x8; WT: 25 LBS.
PRICE: Used, $45.00



INVERTER
INPUT 27.5VDC 60A
OUTPUT 115 V 400 CY 750 W 3 PHASE 26 V 400 CY 50 W 1 PHASE
SIZE 11x10x6; WT: 40 LBS.
LELAND#10285 USED $34.95

WINCHARGER 51S1 DYNAMOTOR on 15x9½ base. Input 26 VDC 22 amps; output 1500 VDC 200 ma and 330 VDC 100 ma. 44 lbs sh. Used, $20.

DM-42

DM-42 DYNAMOTOR; INPUT: 12 VDC 39 AMPS. OUTPUT: 1030 AND 515 VDC @ 215 MA. 7x7x11; 42 LB. RECOND. $15.

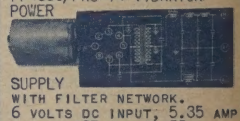
#LV-DYN/T195, input 10 amps output 250 VDC 300 ma, -45 VDC 10 ma, and 115 VAC 30 VA 400 Hz. 8½x3 d. $25.

HIGH VOLTAGE

ACE HIGH VOLTAGE POWER SUPPLY: OUTPUT: 3000 VDC 50 UA APPROX. INPUT: 115 V. 60 Hz. USES TWO 1B3 RECTIFIER TUBES. WITH MOUNTING FLANGE. SIZE: 6x7x2; SHPG. WT: 8 LBS. UNUSED. #ACE-HV3000, $5.95
SPECIAL!! 3 for $10.00

JACK & HEINTZ F-132 INVERTER
INPUT 27.5 VDC @ 100 AMPS.
OUTPUT 115 V. 400 CYCLE 1500 VA 3 PHASE
SIZE: 16 x 11 x 7; WT: 55 LBS
PRICE: USED $75.00

PE-104 POWER CONVERTER. 6 OR 12 VDC INPUT, OUTPU 90 VDC, 1½ VDC AND -45 VDC. SIZE:4x4x7; WT: 10 LBS. NEW $3.95 W/EXTRA VIB.$4.95



PP-855/PRC-14 VIBRATOR POWER SUPPLY WITH FILTER NETWORK. 6 VOLTS DC INPUT, 5.35 AMP OUTPUT 135 VDC @ 155 MA. SIZE:7½x2¾x2¾; WT: 3 LBS. NEW $4.95

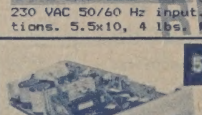
PP-1234/U 115/230 VAC POWER SUPPLY for URM-32 freq. meter; output 180 VDC 20 ma, 6.3 VAC 1.1 amp. Xformer 460 VCT 20 ma, 6.3 V 1.25 A.; Choke dual 20 Hy 20 ma. W/6X4 tube. 12x3½x1½ 12 lbs sh wt. Used, $14.95

PP-18 CONVERTER 12 VDC 4 amp to 24 VDC 1.5 amp; parallel for more current. With vibrator & plug; 6.5x5.5 x8.5, 10 lbs. UNUSED, $5.95

28 VDC SWITCHING SUPPLY

28 VDC 1.25 A SWITCHING POWER SUPPLY, also outputs +12 V 1.5 amp, +5 V 4 A, and -12 V 0.5 A; requires 115/230 VAC 50/60 Hz input. Not for RF applications. 5.5x10, 4 lbs. #PS-1486, ~~$19.95~~ $14.95

5 VDC 28 AMP



HEAVY DUTY SWITCHING POWER SUPPLY with "heavy duty" outputs +5 VDC 28 amps, +12 V 4 A, -12 V 1 A, and +24 V 1.5 A from 115 VAC 60 Hz input. Has On-Off switch, 3-prong input connection and 16-pin Molex output connector; removed from equipment. 2x5x13, 6 lbs. #SWPS-528, $14.95

SCR HEATSINK ASSY

SILICON RECTIFIER BRIDGE, single phase half-wave; GE #C14114CX5 or equivalent. Rating approx 500 V 35 amps. 7x6¼x5, 4 lbs sh. #XS-195761l, used, ~~$8.95~~ $6.95

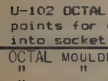
BLUE M OVEN

BLUE M BATCH OVEN, large 8 cubic feet capacity with Power-O-Matic 60® saturable reactor proportioning control system; temperature range 15°C ambient to 180°C. Oven interior 24"Hx24"Wx25"D. Units used in PC board testing and have removable 5x6 card rack installed for thirty 4"x14" cards. Also extra power control electronics, running time meter, and large 0-250°C West temperature meter. Requires 208 VAC 60 Hz 2.7 KVA 1 phase. 86x37x34, 300 lbs. #POM-5863BX, used, $695.00

SPEED CONTROL

WALL MOUNT SPEED CONTROL, solid-state unit designed to adjust speed of Miami-Carey ceiling fans is rated 120 V 60 Hz 3 amps. Use to vary speed of any motor of similar rating. Includes aluminum mounting plate for standard outlets, hardware, and wiring info. 1 lb sh. #MSCW/KIT, NEW, $5.95

TUBE SOCKETS



4X150 SOCKET PAIR f/ T-195 xmitter modltr 4¼x3x2¼, #T195/4X150 Removed, $12. $10.

CERAMIC PLATE CAPS, cut-offs. 5/8" Size, $.75; 3/8", $.60

OCTAL TUBE SOCKET EXTENDER, plugs in to save wear-and-tear on your tube checker's octal socket; #1189, NEW $1.75

U-102 OCTAL TEST SOCKET, test points for octal tube; plugs into socket. #4578 NEW $2.50

OCTAL MOULDED 2 HOLE MTG. $ .35
" " RING " .35
" CERAMIC (SPECIFY) .60
LOCTAL MOULDED 2 HOLE .35
CERAMIC TYPES 4,5,6 & 7
CONTACTS STANDARD SIZES .65
MOULDED TYPES 4,5,6 & 7
CONTACTS, STANDARD SIZES .45
MINIATURE MOULDED 7 & 9 .35
CERAMIC 7-PIN for 1625, $1.25
SHIELDS FOR MINIATURE TUBE .40

GIANT 4 CONTACT CERAMIC FOR 211/VT-4C, 872 ETC. GE#NL7461594-G1 USED $1.25

GIANT 4 CONTACT CERAMIC FOR 715,718 ETC. JOHNSON 234 TYPE STK.#227684.98 UNUSED $1.25

CERAMIC FOR 829 ETC. used 1.25
" " 832 ETC. used 1.25

JOHNSON 209/210 CERAMIC SOCKET w/shoulder f/811-866. Used $3.

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JOHNSON CERAMIC SOCKETS, unused
#214 for 750TL/1500T etc $2.
#244 for 8008 etc. $2.00
#122-237 for 813, $5.00

EIMAC SK-113 GETTER CLAMP f/4" dia tube base NEW $45
122-207 for 826/829/832/4D32;
VHF septar. Used, $3.00 ea

JOHNSON 247 or equal socket for 829/832; used, $1.50 ea

TERMINAL BLOCKS--TELEPHONE TYPE

#TT4X10F4A, 4 rows ten terminals each; total 40. Size: 3½x3x2; unused $4.25
WE 4x10, used $2.25
#660069, 3 rows 26 removable terminals; 78 total. 7x2½x3 $4.50

WE 2-rows 25-term; used $2.
4E9865 40-term, flat mt. $2.

879-9661 3 rows of 30 terminals one side wire wrap. size 8-7/8x2-3/4x1-3/4 $3.50

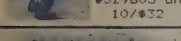
AIRCRAFT STYLE TERMINAL STRIPS
AN-3436-2-6 6 term. 4x7/8x11/16
6-32 studs on 19/32 centers .55

AN-3436-4-16/10 term. 12½x1x1
10-32 studs on 3/4 centers $1.25

5BK-22 BOX Consists of 3 AN-3436 terminal strips 13 term. each & 2 AN-3436 9 term. ea. The 10/32 studs extend thru. the phenolic board and have solder terminals. Board size 5½x8½x2; 4lbs $2.75

RF TAP SWITCH

5-POSITION CERAMIC TAP SWITCH for 100 W WW-2 transmitter; 2.3x2.3x1.8, 1 lb sh. #3Z9605 unused, $3.95 10/$32 100/$265.



TERMINAL STRIPS WITH CLIPPED WIRE

BARRIER TERM. STRIPS AVAILABLE, 3/4,1 & 1½" WIDTHS, 2 TO 16 TERMINALS. TWO TERMINAL 20¢,EA. EACH ADDITIONAL TERMINAL 3¢. WE WILL SHIP CLOSEST TO YOUR ORDER.

HEAVY DUTY TERMINAL STRIPS, APPROX. 2"Wx½"D.

8 " 6 " 2.00 SCREW DOWN
12 " 8½ " 3.00 HOLDER TYPE $4

Capacitors

4 MFD 4000 VDC 12.3x4.5 x3.8, 9#. w/bracket $12.00

25.6 MFD 1 KVDC, 2 KV int. 6.5x3.8x3.3, 6 lbs, $9.00

MFD	VDC	SIZE	PRICE
4	400	2½x4x1	$.75
2	600	2½x2½x1	.75
4	600	3½x2½x1½	.95
6	600	4½x2½x1½	1.20
7	600	4x4x2	1.35
1.5	1000	4x1½x1	.85
2	1000	4x1½x1	.95
4	1000	4½x2½x1½	1.35
2	1500	4x2½x1½	1.15
4	1500	4½x3½x1½	1.95
8	1500	5½x3½x2½	3.00
1	3000	4.5x3.8x2.3	1.50
1-1	3000	8x9x4 12# (case ground)	1.25
2	3000	5.5x3.8x3.3	2.50
0.84	4000	5.3x3.8x1.9	2.25
8	4000	case ground 8.3x3.5x2	$10.00
2x0.1	4500	5.5x3.8x1.8	1.50
2x0.1	7000	case ground 5.5x3x1.8	2.50
0.03	7500	5"x2" dia	1.25
0.5	7500	8.9x3.8x4.5	6.00
2x0.5	9KV	13.5x7.5x7 24#	$7
0.1	12000	6x3.8x4.8	4.00

COMPUTER GRADE

MFD	VDC	SIZE	PRICE
23000	7	5½x1½	.60
		Bank of five	2.25
61000	10	4x2½	1.50
150000	10	5½x3	3.25
28000	15	4½x2	2.00**
73000	15	4½x3	3.00
5200	20	3½x1-3/8	1.25**
40000	20	4½x2½	2.75**
52000	20	6x3	2.85**
18000	25	4½x2	2.00**
16500	30	4½x3	2.00
25000	30	4½x3	2.25
54000	30	6x3	4.00**
18000	35	4x3	2.50
25000	35	4x2½	2.75
37500	35	6x3	3.75
9400	40	4½x1½	2.00
51000	40	5½x2½	4.15
20000	55	5.75x3	3.25
1000	50	3½x1½	1.20**
23200	50	4x3	3.25**
3500	55	4x3	2.00**
11000	60	4x2.5	2.65
58000	20	6x3	2.20**
20000	70	6x3	5.00
950	75	4x3	2.00
5200	200	6x3	7.50
1400	99	4x2 dents	1.00**
2700	300	5½x2½	5.00**
900	165	4x2 dents	1.00**
1250	180	4½x2½	3.00**
500	200	4x2 NEW	2.25
500	200	5½x3	1.00**
1700	200	5½x3	3.20
1000	350	5½x3	3.75
5200	200	6x3	7.50

** marked, take 25% OFF.

BUY 5 COMPUTER GRADES of SAME rating, take 20% off.

TRANSMITTING BROWN MICA: F3L size, 0.004 mfd, 8000 VDC, unused, $12.00

MICA CAPACITORS used in RF power circuits. JAN CM-size less than 1½x1-3/8	MFD	WVDC	CM
	.01	600	55
	.02	600	55
	.022	1200	60
	.01	1200	
	.005	1200	
	.0002	2500	
$1.25; 5/$5.	35 pf	3500	55
	.002	3500	60

COMPUTER GRADE ASSORTMENT, 10 capacitors in ranges 5-30 VDC 1K-50K mfd; takeouts Approx 10 lbs, ~~$6.00~~ $4.00

ROTARY SWITCHES

1-POLE 17-POSITION, 2¼" dia bakelite; 3/8x¼" dia shaft. CRL #PA3001 NEW $1.95; 2/$3

ROTARY SWITCH, 2-DECK. ONE 4PDT MOMENTARY BOTH SIDES; OTHER 2PDT MOM. B.S. AND 1PST MOM. 1-3/8" DIA.; CERAMIC. #3Z9825-20, $1.00

MINI-ROTARY, 1-pole 3-pos. shorting. 1" dia; 1/8" dia shaft. No hardware. #LED-M13-S, unused, 75¢

THUMB-WHEEL WAFER SWITCH, 18 POSITION, NUMBERED, 2 HOLE MTG. HORIZONTAL OR VERTICAL, 2¼x3/8" # 960 NEW $1.25
SAME AS ABOVE 10 POSITION 2¼x3/8" #980 NEW $ .75

2-DECK 5-POS w/OFF-ON switch 2/SPST 8 A .125 V. 2¼x1½, ¼" d shft. #2D5PSW $3.

MALLORY NON-SHORTING TYPES: #3254J 3-circuit 4-pos $1. #3243J 4-okt, 3-pos., $1.10

2-DIGIT THUMB SWITCH 00 to 39; can be modified to 99 but one digit has 1-pole 10 pos wafer, other binary code output. Digitran Serie 23000; 1x1¼x1½. NEW $1.75

Rotary switch one deck 17-position, one tie deck. 1½" x1. silver pl. SW-249 $2

CERAMIC 2-pole 4-position; 1-5/8" dia, 1"x1/4" dia shaft. #SW-1064-4 NEW $2.25

DAVEN SWITCH

18-POSITION, CONTINUOUS TURN, 2" dia. Zinc-silver contacts. ¼x¼" dia shaft. #3Z9825-92.2 Unused, $3.00

Miniture tap switch 1 pole 7-position rated 1 amp. 1x½". Grayhill 7 pos. $2.00

CERAMIC TWO DECK, 1-pole 4-position/deck (90 throws); 2x¼" dia shaft, 1¾" dia wafers. #83-2-1P4P, $1.75

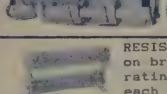
CERAMIC 2-deck 8-position; 1-3/8" dia wafers. Shaft 1/4" dia. #383-5447, $2.50

CERAMIC 1-deck 12-position 1-3/8" dia wafer; 1/4" dia shft. #SW112/TV-2 used $3.

BAKELITE 1-DECK 1-POLE 10-POSITION w/stop, 1-3/8" dia wafer; #1110-3713 NEW $1.25

DUAL CONTROL SWITCH, ¼" dia outer shaft switches 1-pole 4-position rotary; 1/8" dia inner shaft adjusts 50K ohm pot w/on-off. #3540 NEW $2.

ANTENNA CIRCUIT SWITCH



100 WATT 3/MAKE 3/BREAK SIZE: 4¾x2¾ IN. #3Z9626 $2.50

RESISTOR PAIRS on brackets; rating/size f/each resistor:
0.2 ohm 100 W 6x1, 2# $3/pr
8Ω 400 W 8.5x1.8, 3#, $9/pr

EDGEWOUND RIBBON RESISTOR, 0.67 500 W; 11x2, 3#. $8.

METALIZED-PAPER CAPS

0.1 mf	400 V,	3/$1
0.5 mf	400 V,	2/$1
0.0068 mf	600 V	4/$1
0.033 mf	600 V	3/$1
0.68 mf	600 V,	2/$1
0.0033 mf	1 KV	3/$1

Parts Kits

HARDWARE ASSORTMENT from electronic equipment such as washers, screws, rivets, nuts, terminals; 2 lbs $2.00

MICA CONDENSERS 25 ASST. 10 MMFD To 6800 MMFD. $1.00 a KIT

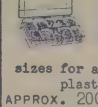
BATHTUB CONDENSERS KIT .1 to 1 mfd up to 600 VDC. Various types 10/$1.

PRECISION RESISTORS 25 asst. on boards. Carbon or wire wound 1%. $1.50/kit

RESISTORS WIREWOUND 25 ASST.

5 to 20 Watt. Wide range of values some tapped. 25 ASST $1.00

VOLUME CONTROLS 10 ASST. Popular Values $1.00



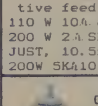
TERMINAL LUGS, ring spade, crimp types. Wide variety of sizes for all uses in plastic box, APPROX. 200 PCS. $2.00

ROTARY WAFER SWITCH six different types Multi-decks and contacts $1.25

RESISTORS

25 W 4 ohm Slider + 4Ω fixed; 4x0.6 $.75
100 W 1Ω tapped 0.2-0.4-0.4, 6x1.3 $1.75

100 W 175Ω non-inductive feed-thru $2.50
110 W 10Ω 8x1.3 $1.50
200 W 2Ω SLIDER ADJUST, 10.5x1.3 $2.25
200W 5KΩ 10.5x1.2 1.75



CAPACITANCE DIVIDER, 15 KV insula- 30 pf total capacitance 60:1 ratio. 32"L RG-11 cable with PL-259 connector. 7.5x5, 6 lbs; NEW. GEWC373179. $12.95

PHOTO-FLASH CAPACITOR 750 uf 330 VDC 2x1.2 dia; NEW $2.25, 5/$9.

POLYSTRENE CAPACITORS .01 uf 200 V, 4/$1. 0.33 uf 400 V, 8/$1.

* * * * * * * * *

CENTRALAB 957 HV DOORKNOB CAPACITOR. 40 pf 15 KV; used $3

AC CAPACITORS

MFD	VAC	SIZE	PRICE
4	220	4½x1¼x1	$1.00
14	220	4x2x1½	2.25
3.9	330	4x2x1	1.00
50-60	330	4.4x2.1 dia	2.25
17.5	330	5½x2½x1½	2.50
12.5	360	4-3/8x2½x2	2.00
2	440	2x2x1½	1.00
25	330	5x3.8x3.3	3.00
7.5	480	4.5x2.5x1.5	2.00
21	525	6¾x3½x1¾	4.00
18	600	4¾x4½x2¼	4.00
4	660	3¼x3x2	1.25
6	660	5x3½x1¾	1.50
1.3	950	5¼x4x1¼	3/1.00
.05	2500	2½x2x1¼	.65
1.3	4000	8¼x4½x3½	4.00

ELECTROLYTIC (E)/PAPER (P)

6800uf 16 V axial (E) 4/$1
450 uf 25 VDC (E) 50¢ 5/$2
1000 uf 25 V axial (E) 50¢
1500 uf 63 V axial (E) 75¢
50-30 uf 150 V (P), 2/$1.
30-30-15 mf 150 V (E) $.65
80-40-20 uf 150 V (P) 2/$1
250uf 150 V axial (E) 2/$1
25-25 uf 200 V (E), 45¢
60 uf 250 VDC (P), $.75 ea
160 uf 250 VDC (P), $1.10
160-240-240 uf 200 V $1.65
140 uf 300 V axial (P) 85¢
50 uf 350 V axial (P) 65¢
20-20-20-20 MF 450 v (E), 3x1.3" dia, NEW $1.50
60 mf 450 V (E) $1.25
80 mf 450 V (E) used $1.50
0.5 mf 2500 V 3x1.2" dia axial, $2.00

1 KV DISCS: 7/$1. 100/$6.
UF .0001 .0002 .002 .0056

TANTALUMS, 35 VDC PCB-type
4.7 or 6.8 uf 4/$1 10/$20
40 uf 25 V, 2x3/8, 2/$1.
47 uf 20 V, ¾x¼, 45¢

RESISTORS

3/5 W, 20¢ EA; 10/25 W, 30¢

0.5	"	10	"	"
2.0	"	10	"	"
2.43	"	3	"	"
10	"	8	"	" 30¢
24	"	5	"	"
70	"	5	"	"
100	"	5	"	"

BLEEDER RESISTORS

0.33 ohm 25 watt "
1000 " 25 " , WW
15K " 10 " , "
15K " 3 " , "
100K " 3 " , CERAMIC

1.6 OHM 220 W, 5%, $1.50
0.05 " 105 W, 5%, 4x1, $1.

PRECISION RESISTORS
100K ohm 0.33 W 0.1%, $.40
7.5K OHMS, 0.333 WATT, 0.25%, WIREWOUND, 40¢ EA.
28K OHMS ½ WATT, 0.05%, WIREWOUND, 40¢ EA.
55 MEGOHMS, 10 WATT, 1%, DALE WIREWOUND, $1.00 EA.

DALE PRECISION POWER RES.
100 WATT 1400 ohms 1%; 3.5x3x1.8, 1 lbs., $2.50
250 WATT 43 ohms 1%: 4.5x3 2.3 (RH-250), 2 lbs, $3.

* * * * * * * * * * * * *

10KΩ125 W KOOLOHM 3x3/4 $.40
100KΩ115 watt 6.5x1.2 $1.25
1 OHM 130 W, 5% Dale, $2.25
1K OHM 160 W 12x1.3" $1.65

260 ohms 5 watt 1%, 2/$1.
4K ohms 3 watt, 1% 2/$1.00
228 W 1.8Ω, 10.5x1.6, $2.50
220W 30Ω SLIDER 10.3x1.3 $2

SLIDER VARIABLE WW RESISTOR
15 ohm 35 watt, 10%, $1.00
10 ohm 75 watt Ohmite $1.50

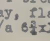
MINIMUM ORDER $5.00

HIGH VOLTAGE TRANSFORMERS

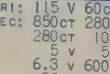
PRI	HZ	SECONDARY	SIZE	WT	STOCK #	PRICE
117v	60HZ	375v 40MA 2/6.3 .6A	2¾x4x2½	4LB	#24003	$3.95
105/115/125		780 VCT 65 ma	5½x5¼x4½	15	#A3499	$5.95
200/225/250	60 Hz	6.3 VCT 4 A, 5 V 2 A				
115	60	350 CT/26 MA 5/3.0 A	2½x3¼x3	4	647-6762	3.95
115	60	1470 VCT 126 ma (2640 MWV), 6.3 V 2.5 A, 6.3 V 0.4 A.	5x6¾x4¾	16	#556-9885	$14.95
115	60	360 VCT 150 ma 5 V 2 amp	3x3.3x4.5	8#	#T360/AM2353	$5.
115	60	110v100MA,50VCT .5A,25VCT,.15A. 14VCT 2.5A.	4¼x3¾x3½	10	KAL#2334	6.95
115	60	289 V 200 ma 207 V 125 ma. 6.3 V 1.4 A. 6.3 V 9 A	5.5x4.6x4	14#	#FB146/510	$8.95
115	60	2400 V. 2/2.5 V 2 A; 2800 VDC 5 ma in 2X2 circuit.	4.3x4x3.5	7 lbs	Stancor P8151	$9.95
108/115/121 VAC	60 Hz	700 VCT 50 ma 5 V 2 A, 6.3 VCT 3.5 A	3¼x5x3½	11 lbs	#12314	5.95
115	60	820 VCT 120 ma 5 V 2 amps	4½x4½x4	10	#7629831	6.95
115	60	1000 VCT 220 ma 2.5 VCT 5 A, 5 VCT 3 A (1750 V insul)	5x4¾x4	20	#T1/610	$10.95
120	60	6.4/1A 3/6.4..3A	2¼x3x2	1	645-0612	2.25
115	60	280 VCT 75 ma 13.5 V tapped 1.5 V 1.2 amp, 5 VCT 3 A	4.5x3.8x4.6	14#	#8767	$6.95
115/60HZ		360VTAPS/7/332/346V.125MA 228V.015 6.6VCT 4.2A	4x5x3¼	12LBS.	#7489394	$3.95
115/230	60	720 VCT 90 ma 6.4 V 4 A, 6.4 V 2.6 A	5.3x4.6x3.5	7#	#TS-19/TRA	$7.
115/230		600 VCT 200 ma 6.4 V 1.85 amp, 5 V 2 amp	4.5x5.3x3.5	10#	#T103/C292	$8.
115	60	342 VCT 350 ma 300 VCT 1.15 A intermittent	3.5x4.8x4.1	11#	#PL-T216	$10.
105-125/210-250		1000 VCT 250 ma 400 VCT 30 ma, 6.3 VCT 16.5 A, 6.3 V 2.5	8x8x6	23#	#T1/CV157,	$14.
115	60	500 VCT 10 ma 6.3 V 0.6A, 6.3 V 1.2 A	2.5x3x2.3	3#	#PHC-10,	$3.95
115	60	2/550 V 40 ma (tapped @ 280 V)	3.8x3x2.3	4#	GE#68G80	$4.95
115	60	965 VCT 120 ma	4.8x4.3x3	8#	GE#68G81	$7.95
115	60	570 VCT 40 ma /220 VCT 65 ma int), 6.3 V 3 amp	3.5x3x2.8	5#	#T1/TA182	$4.95
115	60	600 VCT 150 ma 500 VCT 100 ma. 6.3 VCT 3 amp	5x4.5x3.8	10	#MB1281	$5..95
115	60	500 V 100 ma tapped 300 V, two 5 V 3 A	5x5x3.5	8#	GE#7467177	$5.95
115/230	60	600 VCT 60 ma 6.3 V 5 A	4.3x3.5x3	8	#T1/TG-34	$6.95

LOW VOLTAGE TRANSFORMERS

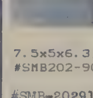
PRI	HZ	SECONDARY	SIZE	WT	STOCK #	PRICE
115v	60HZ	6v/1A 45VCT/.5A	3x2¼x2½	2LB	#1461312	$2.95
220/440	60	three 2.5 V 5 A 2.5 V 15 A, 3 KV test	6x7x4.5	13#	#U8370	$8.
115	60	12 to 29.7 V (24/11.5 VDC 6/12 amp choke input)	3.5x4x4.2	11#	Stancor RT-206	$12.
115	60	Two 2.5 V 6 A 12.6 VCT 6 amp	3.6x4.5x3.2	8#	#FIL-T216	$8.95
220v	60hz	2.5vct @ 5vct @ 3a	4¼x3½x3½	9	THER-8708	$3.95
115	60	6.5 VCT 11 A, 6.5 VCT 6.2 A, 5.2 VCT 4.4 A, 6.5 V 7.8 A	4¾x6x3¾	16	#FT2550	$8.95
115	60	24 VCT 50 VA	2⅛x3x2	3	#BE11269001	$5.50
115	50-400	34/2.7 A 3.0/250 MA	4¾x4¾x4	14	853-6026	$4.50
115	50/60	51 @ 1.5 A 5 @ 1.0 A	RD.4x2½	6	869-2849	$4.95
115	60	2.5 VCT 10 A (10 KV)	3x5.3x3.3	6#	#T2/610	$6.
115	60	2.5 V 10 A 10 KV insl	4½x3¼x5	8	#2Z9611.144	$3
117	60	31v@3.27A,15.5v .51A,23VCT@.21A. 24v @ .85 A.	3½x4½x4½	10	5950-9195	$3.95
215 V	60 Hz	2.5 VCT 10 A.	4¾x3¾x3¾	12	#2253	$2.95



AUTOTRANS FORMER, UTC #R-44 220/240 V to 110/120 V 50/60 Hz 250W on box w/4-breakers, relay, flange mount. O/a 6¾x10x4¾, $9.



PRI: 115 V 60CYC
SEC: 850CT 280MA
280CT 10MA
5 V 5 A.
6.3 V 600MA
36 V 5 A.
5½x5½x7½; 28 LBS.
#5950-646-3943
$6.95



115 VAC 60 Hz primary 2240 V CT 245 MA 3940 WV sec. 7.5x5x6.3; 35 lbs. #SMB202-907, $20.

#SMB-202912, 448 V CT 20 ma; 2x3½x2¼ 3 lbs. Used $2.50

5000 VCT 325 MA

Pri: 115 VAC 60 Hz
Sec: 5000 VCT 325 ma, 7 KV rms test
7.5x9.5x6.5, 80#.
#T402/AM2353, $45.

Pri:115v50/60hz
Sec:1860vct @ 130 ma. 1500 wv
5½x4¼x4½; 18 lb
SMB202-909 $15

Pri: 200/220/240 VAC 60 Hz.
Sec: 1400 VCT 350 ma, 3 KV test;
6x6x5.3, 27 lbs.
#CS-5566, $16.95

Pri: 120 VAC 60 Hz
Sec: 2000 VAC 125 UA, 400 VCT 25 ma
6.3 V 1.2 amp, 26 V 400 ma. 3.5x4.3 x3.3, 6 lbs sh.
#T101/CP95, $5.95

POWER SUPPLY TYPE 115 VAC 60 Hz primaries Unused

#BE12696: 18 V 1.5 amp, 19 V 2.5 A, 10 V 4 A; 3x4x3½, 7 lbs sh. $4.95
10 for $45.00

#PT-09: 48 VCT 2.5 amps; 3½x3¾x3, 6 lbs sh. $5.95

#SR-448: 36 VCT 2 amps; 3.5x2.9x2.7 3 lbs. Used $4.95

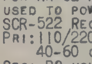
#TRA-1577: 15 VCT 3 amp, 5 V 1 A. 2½x3 x2½, 4 lbs. $3.95

#EMC-56: 50 VCT 3A 3¼x3¾x3¾, 8 lbs. $5.95 ea; 10/$54.

10V. 75 A

Pri: 220 VAC 60HZ
Sec: 10 VCT 75A.
Requires 6 mfd capacitor 660 AC
6½x4½x5½; 24 lbs.
#NE6114781 $18.95

Pri: 105-130 VAC
Sec: 600 VCT 80 ma
6.3 V 3 amp, 5 V 2 A. 4.1x3.5x4.6;
10 lbs. #193-8636,
unused, $6.95



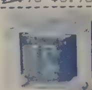
FOR RA-62 RECTIF. USED TO POWER SCR-522 REC-TRANS
PRI:110/220 VOLT 40-60 CYCLE
SEC: DC VOLTAGES
300 @ 230 MA
BIAS150 @ 8 "
13.4 @ 3.9 A.
5x5½x8; 30 LBS.
#3340-296-862-192
PRICE: $7.95

ART-13 MODULATION

ART-13 MODULATION TRANSFORMER 50 WATT 300-4000 RESPONSE ± 2DB, PRI. TO SEC. 1; 1/.695, PRI. TO SEC. 2, 1/.254, Z PRI. 15000 Z SEC.1 7300, TEST 4000 V. 4½x3¼x2¾; 4 LBS. COLLINS#677N252 RE-MOVED $3.95

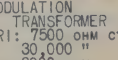
PRI: 115 V. 50/60
SEC:3/17 V. 5 AMP
28 V. 10 "
WITH CAPACITOR REQ. VENTILATION
4½x5¼x7½; 20 LBS.
GE- 9T91A4074
~~$11.95~~ $8.95

PRI: 115 V. 50/60
SEC: 100 VCT 1.5A
20 " 3.0A
2/20 V. 3.0A
35 V. 5.0A
WITH CAPACITOR
GE-9T91A4069
REQ. VENTILATION
5¼x6x7½; 23 LBS.
~~$7.95~~ $5.95

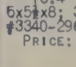


Pri: 115/230 VAC 50-60 Hz
Sec: (12 V 14 A. by wiring 12 V secondaries in parallel) or 12 V 9 A, 12 V 3.2 A, 12 V 2 amps; also 44 V 2.5 amps.
5¼x4½x4¾; 22 lbs
#P-601719, $7.95

MODULATION TRANSFORMER
100 Watt
RESPONSE 200 to 5000
PRI: 7000 SEC: 7000
F/BC-191/375 TRANS.
Size 3x4x5 WT. 5½ lbs.
Stock # 2c6191/T1
Price $3.95



100 WATT MODULATION TRANSFORMER
PRI: 7500 OHM CT 30,000 "
SEC:3000 OHM 35W 200 MADC
600 CT. 1 W RMS TEST
1,2,3 500 V.
OTHERS 2500 V.
200-3500 CPS.
4½x4½x4½; 11LBS
#5950-646-3092
PRICE: $4.95



2/20 V 12 A

TOROIDAL-STYLE, 4.5" dia 115 VAC 60 Hz primaries: #5027-P1S03 with secondaries 2/20 V 12 amps, 2.5"H, 8 lbs sh. NEW, $16.95

TRANSFORMERS LISTED BELOW HAVE 115 VOLT 60 HZ PRIMARIES UNLESS OTHERWISE STATED

Sec: 18 V 5.4 A, 26 V 1 A, 6 V 900 ma, 25 V 500 ma, 35-10-0-10-35 V 5 A. 4½x4¾x4, 16 lb
#401-21 unused $8.95

SEC:40V 2.5A/6.3V 1.5A
3¾x3¼x5¼; 10 LBS.
#43278 $4.95

Sec: 250 V tapped 50 V 120 ma, 4 KV test.
4x6½x3½, 9 lbs sh.
#BP-18587 used $6.95

Sec: 30 vct 560 ma 40 vct 450 ma 2¾x2¼x2; 2 lbs. #401-6 $3.00

SEC: 450 VCT 250 MA.
40 VCT 1 A. 2/6V 1A.
SIZE:3¼x3¼x4½; 9 LBS.
URC#702-704-00 $6.95

SEC:50V@100MA/3V@100 MA/40V@1.5A/40V@200MA
SIZE:2¼x2¾x2½; 2¾ LB.
URC#372993-1 $3.95

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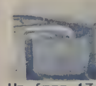
115 VAC 60 Hz primary; wire leads Removed f/ Sun power supplies:

SUN #700-91432, 14 VCT 7.5 A two 30 VCT 2.5 A, 30 VCT 1.2 A, 50 VCT 2 A, 12 V 2 A 54 V 2 A 6.3 V 2 A; 4.5x5.8 x5.5, 13 lbs. $7.50
SUN #778392, 36 VCT 4 A, 11 V 15 A, 30 V 2 A, 19 V 2 A; 4x5.3 x4.8, 16 lbs. $7.95

48 VCT 25 A

REGULATING TRANSFORMER
Pri: 105-125 V 60 Hz
Sec: 48 VCT 25 amp W/capacitor. 7.5x7x6, 50#. GE#9T91Y149, $32.

DC to AC CONVERTER



Saturable transformer designed to produce 24 V 1 amp 60 Hz from 13.6 VDC input in a simple transistor oscillator circuit. Feedback windings regulate frequency to 60 Hz; would work well at 400 Hz using 555 IC to drive transistors. W/ schematic. 2.5x2.8x2.3 2 lbs. #23-239, $3.95

2/20 V 5 A

TORROIDAL-type, 4.5" dia X 1.6"H; 115 VAC 60 Hz primary. Sec: 2/20 V 5 amps; 4 lbs #4365-P1S2 NEW $8.95

PRI: 115 VOLT 60 HZ.
SEC: 130 VCT @ 200 MA
SIZE:3¾x2¼x2¼; 2 LB.
URC#8316423 $2.50

Sec: 26.8 vct 1 A. 2½x 2x2¼, 2 lb. #401-17 $3

Sec: 24 VCT 3.5 A, 40 VCT 575 ma, 105 V 350 ma, 90 V 150 ma.
4.5x3.8x3.3, 8 lbs sh
#KAL-2334, NEW, $5.95

Pri: 115/230 V 60 Hz
Sec: Dual 64 VCT 2.2 amp; 5.8x4.6x5, 15 lbs. Unused ~~$15~~. $12.

10 VCT 8 A

secondary from 115 VAC 60 Hz pri; 2500 V ins. 3.1x3.8x3, 4 lbs STANCOR P4097, $10.95

24 VCT 10 A

secondary from dual 115 VAC 60 Hz primary. 3.8x3.3x4.3, 9 lbs sh. MWC #1411-10, $14.95

SEC: 40 VCT 1 A.
SIZE:3¼x1¼x2; 1½ LBS.
URC#56000 $2.95

SEC: 24@2A/6.3@100MA
24@100MA. SIZE:3½x3x3
4 LB. URC-LT-646$4.95

SEC: 30 VCT 200 MA.
45 VCT 100 MA/2.5V30MA
SIZE:2½x1½x2; 1 LB.
URC#374501-1 $2.95

SIGNAL TRANSFORMER
Pri: 2/115 VAC 60 Hz
Sec: 2/6.4 VCT 12 amp
4¾x3¼x3½, 7 lbs sh.
#DL-12.8-12 NEW $14.95

2/18 VCT 6 A

Pri: 2/ 115 VAC 60 Hz
Sec: 2/18 VCT 6 amp; wire for 18 VCT 12 A or 36 VCT 6 A. 4.5x 3.8x3.8, 10 lbs. Signal #DL-36-6, $16.95

Sec: 125 V tapped 90 volts 3 amp. 4x4¼x3½, 10 lbs. #225-3992, $12

22 VCT 3 A.

80 VCT 1.5 A.

PRI: 100,115 V. 60 HZ.
SEC; 22 VCT @ 3 AMP.
80 VCT @ 1½ "
SIZE:3¾x3x4; WT: 8 LBS
#3S92890015 $4.95

ISOLATION, 230 V 50/60 Hz to 115 V 435 ma. 3½x4x3 7 lb. #3456 $5.

VIBRATOR TRANSFORMER
Pri: 12.6 V 115 Hz
Sec: 160 V 160 ma
2-1/8x2¾x3¼, 4 lbs
#5950-243-5679, $4.95

Pri: 115 VAC 60 Hz
Sec: 460 VCT 50 ma
6.3 VCT 2 amps
3x2½x2½, 4 lb. #7514 $4

Pri: 115 VAC 60 Hz
Sec: 32 V 2.5 amps
3¼x3x2¼, 3 lbs sh.
Stancor #S811 used $4.

PRI: 115 VOLT 60 HZ.
SEC: 35 VCT @ 1 AMP.
6 V. @ 300 MA.
SIZE:2½x2¾x3; WT: 3 LB.
URC#1341155-2 $2.50

Pri: 115 VAC 60 Hz
Sec: 45 VCT 500 ma
6 V 500 ma
Size: 3¾xx2½x2½; 2 lbs.
URC#203A6725-10 $2.50

Sec: 80 VCT 2 amp,
12.6 VCT 1.5 A;
3.5x4.2x3.8, 8 lbs.
Stancor #RP-2000, $8.

SEC:500VCT 35MA/24V.9A
6.3V.9A/6.3V .3A/4LBS.
3x3x3½;#RM13-317 $2.95

TRANSFORMERS

40 VCT @ A

22 V 18 A

Pri: 100/115 VAC
Sec: 40 VCT 9 amp, 22 V 18 amps.
5¼x6¾x6, 32 lbs.
#7213-4112, $15.

As above, but sec 39.8 VCT 8.5 A, 22.7 V 12 amps.
#5602-1500, $12.

PRI: 115 V 60 Hz
SEC: 15 V 3 AMPS; 13 V 2 A; 6.3 V 7 A.
WITH CAPACITOR, 4½x3¾x3¾; 13 LBS.
#PV-175-9, $4.95

AUDIO

STANCOR audio NEW: #A3837, pri 500-500 ohm; sec 0.06 to 48 ohm 15 watt 2.9x2.4x2, 2# $4.
#A8085, pri 70.7 V line 156/312/625/1250 ohm; sec 8 4/2/1/0.5 W. 2.8x1.6x1.4, 2# $2.95
#A8089, same as A8085 except for 25 V line, $3.00

Pri: 600 ohms
Sec: 8 ohms 2 W 1.6"Hx1.3" dia
#T1/LS166, $5.

Pri: 250/4000 ohm
Sec: 150, 600Ω CT 400-3000 Hz; 1½x1¾x2⅛, 2 lbs sh.
#C-280/RM-39 $3.

Pri: 25000 ohms
Sec: 4 ohms; 5 watt. 1.4x2.4x1.4, 1 lb. Stancor #A-3327, $3.

Pri: 6000 ohm
Sec: 6000 ohm 20W 200-5000 Hz. 3.5x3.5x2.9, 4#.
TCS #677N201, $8.

Pri: 7000 ohms
Sec: 4000 ohms tapped 250 ohms; 200-8000 Hz. 1¾x2x1¼, 1 lb. #247-9266 $2.

Pri: 10000 ohms
Sec: 600 ohms CT 1 W; p/o R-390A. 1.5x2.1x1.5, 1 lb sh. #AF/390A, $5.

Pri: 4300 ohm CT
Sec: 500 ohm CT & 43 ohm CT, 10 W. 2.8x4x2.8, 4 lbs #189-3742, $5.95

Pri CT to match 5K ohm PP 2A3 plates; sec 9K CT to match PP 100TH grids (B) 3.5x3.1x2.5, 4# sh #558030, used, $6.

INTERCOM AUDIO

Pri: 45-50 ohms
Sec: 3-4/6-8 ohms 8 watts. 2x1.5x1.5, 1 lb. Stancor #A8091, $3.50

INPUT TRANSFORMER

Pri: 150 ohms CT
Sec: 150,000 ohms 100-8000 Hz 1.5mw 2⅜x1-7/8 dia, 1 lb. #5535, $3.50

1-177
TUBE CHECKER TRANSFORMER
SIZE: 4½x4½x4.5 LB
STK.# 2Z9613.667
PRICE: $4.95

PRI: 26/115/230 V 60 HZ.
SEC: 13 V. 8 AMPS TWO 230V WINDINGS TO SUPPLY 370 VDC 600 MA.
5½x5½x5; 22 LBS.
2Z9613.514 $7.95

Pri: 115/230v 60hz
Sec: 12/24 V 4/2 A 2⅜x3x2, 2 lbs sh.
Stancor P6377 $5.

ALL PRIMARIES 115 VOLT 60 CYCLE

SEC: 6v. @ 500 MA. 1½x1½x1½; 3 oz.
URC#T37B648 $1.25

Sec: 6.3 v. 1 amp 1½x1½x1½; 4 oz.
BB16073-001 $1.50

Sec: 6.3 VCT 2 amp 2¼x2x1¾, 1 lb.
Stancor P-2945 $3.

Sec: 2/30 v. 250 MA 2x1¾x1¾, 4 oz.
URC#60605 $1.50

Sec: 6.3 VCT 1.5 A 2x2¼x2, 1 lb sh.
#F-16X, NEW $1.95

Sec: 12 V 2 amps 2x2½x1¾ 1 lb sh.
#37-7622 NEW $2.25

AUDIO BANDPASS
2320 Hz peak, 1285-4200 Hz Band Width:
Pri 600/250 ohms
Sec: 120000 ohms 2¼x2¼x4, 4 lbs sh.
#3Z1892-19, $4.95

MIC TRANSFORMER
Pri: 50 ohms 30 ma
Sec: 500 ohms, 400 to 1900 Hz. 1½x1¼x1½, 1 lbs sh.
#T204/PP-115 $2.00

Pri: 500 ohms CT
Sec: 500 ohms CT, 600-12000 Hz; 2¼x2¼x2½, 2 lbs sh wt.
#T203/PP-115 $2.00

INPUT TRANSFORMER

Pri: 500 ohms
Sec: 20000 ohms CT 150-3000 Hz 0.4 W 1-5/8x2-3/8x1-5/8, 1 lb. #55C162, $3.

LOW VOLTAGE TRANSFORMERS

ALL PRIMARIES 105/110/115 120/125 VOLTS 60 CYCLE.

SEC: 6.6 v. 18 AMP 3⅜x5½x4; 12 LBS.
GE#9T35Y159 $4.95

Sec: 6.3v 2.75A/6.3 V 5.5A, 2.5 KV test 5¼x3¼x3 #7629805 $6.

Sec: 17 V 1.5 A, 19 V 1.6 A 2.5x3x2.5, 3#. #54-995, $4.

Sec: 5 VCT 12.6 A, 3.5x4.5x3, 7#. #T3/610I, used, $7.

Sec: 5 VCT 30 A 4500 V test 4.5x6x4 16#. #T503/2353 $15

Sec: 6.3@3.1a/6.3@2.5a/6.3@.45a/6.3@.30a/2-5.0@2 amp. TF1A01JA $3.95

Pri: 100-130 VAC 60 Hz
Sec: 6.3 V 25 A; 11x5½x5¼, 28 lbs. SOLA #302237, $12.

Sec: 2.5 VCT 10 A 2500 V insulation; 2.5x2.5x3, 3 lbs. Stancor #P3024, $4.95

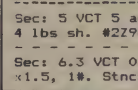
Sec: 12.5 V 2 amp, 150 V 2 A; 4½x3¾x4¼, 13 lbs sh. #773605, unused, $6.96

Sec: 6.5 vct @ 3.4a/6.5vct @ 13.7a/5.2v @ 6.3a/5.2v @ 2.1a. 4½x3¾x6; 15 lbs.
TRC-SMB-202910 $6.95

Sec: 6.3 VCT 8 A, 3.5x4x3, 5 lbs sh. #890260 used, $5.

Sec: 5 VCT 5 amp; 3.8x3x2.5 4 lbs sh. #2Z9625, $3.95

Sec: 6.3 VCT 0.6 A, 1.5x1.8x1.5, 1#. Stncr#P6465 $1.50



FLYBACK TRANSFORMER, 5 V input yields 300 V 80 KHz output; use in bug zapper etc
#FLY-800402K, $1.95; 3/$5.

PRI: 115 V. 60 HZ.
SEC: 900 VCT 130 MA.
5x5x3¾; 13LB. 2Z9612-38 $8

MODULATION

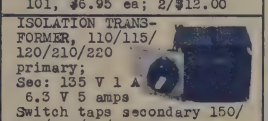
Pri: 8000 Ωct 250 ma; sec 2800Ωct 300 ma. 200 Hz-20 Khz 120 watts. 8x4¾x4¾ 30 lbs. #T201/KD-141, $12.

Pri: 21000Ωct; sec 8000Ωct 250 ma, 150-3000 Hz 250 W 7 KV test. 7¾x4¾x4, 28 lbs sh. #2Z9633/610, $15.

PLATE TO PLATE, pri 15800Ω 4500Ω 900 ma; sec 7500Ω 535 ma, 400-3000 Hz. 11x8¼x10¼ 110 lbs. 568-4831 $36

Pri: 220 VAC 60 Hz
Sec: 2/5 VCT 3 A, 5 VCT 6 A 4 KV test. 4x4x3, 10 lbs.
Kenyon #T355-220, $5.95

ISOLATION, pri 115/230 V 60 Hz; sec 115 VAC 1 amp 2¾x2-5/8x2, 3 lbs. #A762-101, $6.95 ea; 2/$12.00



ISOLATION TRANSFORMER, 110/115/120/210/220 primary;
Sec: 135 V 1 A 6.3 V 5 amps
Switch taps secondary 150/125/100/75/50 V no load from 115 V input. 3¼x2¾x4¼, 7 lbs. #P-126J875. $7.95

HIGH VOLTAGE TRANSFORMERS

DC POWER SUPPLY
PRI: 115v 60 CY
SEC: -8000 v. @.25-1 MA.
-120v @ 15 MA
- 24v @ 1.2 A
-16.v @ .45 A
SIZE:4x4x9½; WT: 15 LBS.
#GE9T63Y2280G03 $14.95

370 VA ISOLATION
Pri: 100/120/220/240/260 V
Sec: 70-35-20-20 volt. Use secondaries in series for 105-110-125 V 3 amp load, 5 A intermittent. 5.3x4.4x4.5, 17#. #BE16141, NEW $16.95

PRI: 115 VAC 60 Hz
SEC: 900 VCT 250 MA,
4½x4½x3¾; 15 LBS.
#SS-S-P243, $7.95

PRI: 115/230 v. 60 HZ.
SEC: 520 VCT @ 90 MA. 6.3v/1½ A. 6.3VCT 4A.
SIZE:4¾x5½x3½; WT: 7 LBS.
#TBIRX03LB/FGC-29 $5.95
CHOKE FOR ABOVE 10/25 HY. 125/15 MA. 4¼x3¾x4¾; 4 LBS
#TFIRX04LB/FGC-29 $5.95

Pri: 115/118/121/124 VAC
Sec: 42 VCT 2.5 amp, 2 VCT 12 amp; 6.3x5.8x4.8, 14 lbs sh. #253-2593, $8.95

IGNITION TRANSFORMER
Pri: 115 VAC 60 Hz
Sec: 7000 V 3.75 ma 4x5x4¾, 6¾" mtg; 10 lb #9T63Y3068G4 used $8.

Pri: 115/230 V 60 Hz
Sec: 920 VCT 100 ma 4/6.3 V 8 amps, 5 V 6 A, 5 V 2 amps 5x5x6, 20 lbs sh.
Paeco #910-96R $12.

Sec 2500 V 5 ma, 2.5 V 2 A, 6.3/2.5 V 3 A; 3.5x4x3.3, 7 lb sh. #26R29U, used, $7.95

ISOLATION

DUAL PRIMARY, each 100/110/120 VAC 60 Hz; can be wired for 200/220/240 V input. Secondary 120 V 1.1 amp tapped 100 V 1 A; 8 V 2 A -0-8 V 1 A; and 16 V 1.5 A -0-16 V 1 A. Mounted on board w/AC socket, fused secondaries, diagram. Xformer 5¾x4¾x4, 20 lbs sh. #97313, NEW: $12.95 each; 2/$22.00

2250 VCT 585 MA (1750 V working) from 115/230 VAC 60 Hz primary 6¾x4¼x4¾, 32 lbs. #TF1UX02YY used $38.

335 V 300 MA, 6.3V 3A from 115 VAC 60 Hz pri; replacement xformer for DRAKE transceiver. 3.8x3.3x3, 7 lbs. #17-61914, NEW, $8.95

4800 VCT 475 MA or 5670 VCT 321 ma 7500 WV; 115/230 VAC 60 Hz primary. 9¼x10¼x8¼, 110 lbs. #2Z9621/610. $65.00

CONSTANT VOLTAGE TRANSFORMERS; 95 TO 130 VAC 60 Hz PRIMARY; WITH CAPACITORS. SOLA AND OTHER MFGS. REMOVED FROM EQUIPMENT.

Sec:6.3v@2.38a ac 5¼x3½x2½; 8lb 581-5333 $5.95

SEC: 24 VDC 5 AMPS
SIZE: 4¾x3¾x5 15LB
#22661-1 $9.95

SEC:25-27VDC 3.5 A AMPS; 5x3¼x4½ 11LB
#22662 $6.95

PRI: 115 V 60 c
SEC: 6.3 V 3.6 A
15 V.004 A
15 V.004 A
SIZE:3x3¼x3¼ LBS
STK#ORD7629806
PRICE: $1.50

Sec: 115 V 75 ma, 2.5 V 5A, 6.3 V 6 A, 6.3 V 3 A, 6.3V 1.8 A; 4 KV insulation. 4¼x7x6, 12 lbs. BP18585 $8.

STEP-UP/STEP-DOWN XFORMER
Pri: 115 VAC 60 Hz
Sec: 208/220 VAC 150 W; 4¼x3¾x3¾ 8 lbs. #SU-3D150 $8.

5030 VCT 500 MA

sec; pri 115 VAC 60 Hz.
P/o BC-610E; 12x11x10 115 lbs sh. #2Z9612-1, $67.50

32 V 3.5 AMP

Pri: 115 VAC 60 Hz
Sec: 32 volt 3.5 amps
Open frame-style. 3.3x2.8x2.3, 4#. #X5157308 $5.95

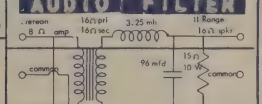
TRANSFORMERS

COMMERCIAL GRADE TRANSFORMERS suitable for constructing DC regulated power supplies or other. All 115 VAC 60 Hz primaries; end bell style with wire leads. NEW:
* * * * * * * * * * * * * * * * * * * *
#757-2658, 80 VCT 1.5 amp (3 A int), 115-230 V pri; 3.8x4x3.1, 9#. $5.95

#TS-465, 44 VCT 3.5 amp, 30 VCT 1.2 A, 9 V 1 A; 4x3½x3½, 7 lbs. $5.75
#701-221, 46 VCT 3.5 amps, 7.5 V 2 A; 4x3½x3½, 6 lbs sh. $5.95
#TA-600, 48 VCT 3.75 amps, 48 VCT 1 A; 4½x3½x3¾, 8 lbs sh. $5.85
#701-129, 50 VCT 2 amps, 6 V 2 A; 3¾x3½x3, 5 lbs sh. $4.95

#701-203, 55 VCT 4.5 amps, 7 V 2 A; 4x4x3½, 10 lbs sh. $7.95
#701-205, 2/55 VCT 4 A; 4½x4½x4 10 lb. $9.95
#701-206, 115/230 VAC primary, secondary two 55 VCT 3 A; 4½x4½x3¾, 10 lb. $9.50

AUDIO FILTER



ELECTRO-VOICE FILTER EVXX3 is an audio frequency filter which connects two audio amps to two speaker systems. Bass frequencies below 300 Hz are passed to one side of the system and higher frequencies are passed without change to both systems. Eliminates need for two full range systems. 5¾x4¾x5¼, 8 lbs. Unused, original-boxed $4. W/water damaged case $2.50

Pri 115 VAC 47-63 Hz all:
#115-2054, 115 V 200 ma, 6.3 V 6.25 A; 2¾x3¼x3 5 lbs sh., $4.95
#435-2054, 435 V 370 ma; 2¾x3¼x3½ 8 lbs sh, $7.95
#1000-2054, 869/930/1000 V 300 ma; 3¾x4¾x4¼, 14 lbs sh., $11.95

Pri: 115 V 60 Hz
Sec: 900 VCT 160 ma; 4¾x5x3¾, 8 lbs. #74618 $7.95

Pri: 115 V 60 Hz
Sec: 900 VCT 84 ma; 5x3¾x4¾, 12 lbs. #746-7167 $4

13 VOLT

Pri 110/120 VAC 60 Hz. Unused:
#36218-46, 13 V 12 amp, tapped 8, 10 V; 3.8x4.5x3.3, 6#, $8.95

Pri: 115 VAC 60 Hz
Sec: 12 V 3 amp; 2.5x3x2.5, 3 lbs. #12V-3A, $3.00

PLUG-IN TRANSFORM
PRI:115v 60Hz
SEC:24v 20VA
2¾x2x2: 2LB.
RL#8002 $1.50

PRI:115v 50-133cy
SEC:20 VOLT LOAD OR 12.5v @ 2 AMPS MOUNTED ON 4" RD. ELECT. BOX COVER 3x3x2½; 2 LBS.
#FR-24960 $1.25

CHOKES

10 HY 500 ma 43 ohm 1000 WV 5½x5x6 24 lbs. SMB202916 $9.

19 HY 105 ma 170 ohms; 3.3x 4.3x3. 4#. CRV30390, $5.00

4 HY 650 ma 25 ohm 1.07 kv 6½x5x4½ 20 lb GE7485547 $9

6 HY 150 ma 125 535WV 2.3x 2.9x2, 3#. #L601/390A $3.50

2 HY 100 ma 100 ohms 2 KV test; 2x1½x1½ #T56379 $2.00

10 HY 150 ma 150 ohm 500WV 3.3x3.4x4, 5#. #L3-AM20 $5

7 HY 200 ma 140 ohms; 3x2¼ x2½, 5 lbs. Kenyon T152, $5

4 HY 550 MA 40 ohms $4.95 3½x4x4; 7 lb Paeco 911-39

5 Hy 500 ma 30 ohm, 536 WV 4.3x5.3x4.5, 15#. #8600, $5

4 HY 400 ma 70 ohms 450 Vrms; 3½x3½x3, 6 lbs. #SMD-422-745 $4.

4 HY 300 ma 70 ohms 1000 V-rms; 3½x3½x3 #SMD422768 $4.

1 HY 700 ma 11 ohms 1K WV; 5½x3x3½, 9 lbs. L101/141 $3

2 HY 700 ma 23 ohms 1K WV; 5½x3x3½, 9 lbs. L201/141 $4

6 HY 250 ma 105 ohm 2 KV-T 4.3x3.5x3, 8# #L123/610 $5.

20 Hy 16 ma 810 ohms; 3.2x 2.2x2, 2#. SMB202914 $2.75

7 Hy 140 ma; 2.8x3.5x2.6, 4 lbs. GE#B06116, $3.50

12 HY 80 MA 375 ohm $1.50 3x2x2;2 lbs. SK1N20053

150 MA AVAILABLE VARIOUS HY TELL US YOUR NEED.

3 HY 350 MA 30 2K PV; 3½x 4½x2½, 6 lb. L-225/PP115 $3

3.5 HY 200 ma 90 V 1 KVRMS 3½x4½x3, 4 lbs. #7629828 $3

TUNED REACTOR, 210 mHY 1 A choke in circuit with 8 mf and 4 mf capacitors; switch selects 50 or 60 Hz operation. 1.5 ohms max DC res. 4½x6x4½ 10 lbs. USG3416 $8.

PRI: 60 V 60 Hz. SEC: 2130 V 16 ma, 112 V 4 ma. 4½x6 x4½, 10 lbs. #HA131P $8.95

10,000 VOLT

AMP P/N 845321-3
PRI: 115v 60HZ.
SEC; 10,000VAC 100MA
5x5x4; 10LBS. $20

SCOPE XFORMERS

ACE HV POWER SUPPLY as on page 10; 3000 VDC 50 ua output from 115 VAC 60 Hz input. Includes 2/1B3 tubes 6x7x2, 8 lbs sh wt. Unused. #ACE-HV3000, $5.95 2/$10.

PRI: 112/117/122v. 60 HZ.
SEC: 228v @ 15 MA.
360v @ 125 MA. TAPPED @7v/332/346
6.6 v. 4.2 AMP.
5x3½x3½; 8LB. 2Z9613-869 $5

HV OSCILLATOR TRANSFORMER f/HP-160 & USM-105A scopes; used with 50 Khz 6AQ5 oscillator. Two HV windings approx 5000 V each. 2½x2½ x2½, 2 lb. #3862 NEW $35.

PRI: 115/230 VOLT
SEC: 54.4VCT 2.5A
37.5VCT 7.8A

6½x5½x4½; 20 LBS.
SCHOTT TY44X020A
$12.95

PRI: 117v 50/60
SEC: 6500VCT
65MADC, 4350WV
5½x6½x7½; 35LBS
539-6504 $25.00

HIGH CURRENT CHOKES
#6220526, 85 mHY 10 amps; 0.49 ohms DC resistance. 4½x3¾x4½, 15 lbs. $9.95

#6221188, 4 mHY 8.7 amps; 0.083 ohms DC resistance. 4x2½x2½, 4 lbs. $4.95

#WE330A, 60 mHY 7.5 amps; 0.74 ohms DC resistance. 4½x4½x4, 12 lbs. $7.95

#WE1059A, 6 mHY 15 A; 0.11 ohms DC res. Sealed-type. 5x4½x4½, 15 lbs. $8.95

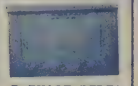
#WE1060A, 2 mHY 15 A; 0.14 ohms DC res. Sealed-type. 3¾x4½x3½, 8 lbs. $5.95

#WE241C, 2.5 mHY 25 A; .25 ohms DC res. Sealed-type. 3¾x4½x3, 7 lbs. $7.95

10 HY 250 ma 850 ohm, 4x 3.4x5.3, 12#. #L1/T593, $7.

10 HY 75 ma 268 ohms; 4x2¾ x2½; 3 lbs. #CS13886, $3.

DUAL CHOKE
11 HY 100 MA
200 OHMS
4x4x5½ WT 8
#3C557F-1
$1.75



3 PHASE DELTA
60 hz 400 wv
nominal 208 v
3phase
1940 wv
1370 v rms 52
ma rms per leg
5x5½x4½; 18 lb
686-6836 $25

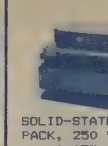
Pri: 115/230 VAC 50-400 Hz Sec: 980 VCT 250 ma, 5 VCT 2 amps, 6.3 V 5 A; 6x4.8 x4, 12 lbs. #T1/T593, $12

Pri: 115 VAC 50-60 Hz; Sec 850 VCT 340 ma 700 WV. 4½x 5¾x4½, 17 lbs. #FT2546 $10.

Pri: 115 VAC 60 Hz; Sec: 870 VCT 250 ma 2 KV insula. 5x4¾x4, 12 lbs. #T5/610 $8.

Pri: 115/230 VAC
Sec: 650 VCT 70
ma, 6.3 V 3.8 A.
3½x4½x3, 7 lbs sh
#M4626/TS1060 $8.

DAVIS DIMMER
AUTO TRANSFORMER
Input 230 VAC 60 Hz 1 Ø; five slide adjust 0-48 V outputs, 20 amp max-total. Used as stagelight control. 10x10x7, 90 lbs sh. #GR-3-048 $39.95



SOLID-STATE POWER PACK, 250 VDC 200 ma +0.05% with +4% volt adjust; 115 VAC 400 Hz in. 4.9x6x4.2, 5 lbs. #894-6397 NEW $200.

TELEPHONE REPEATING COILS, 1:1 for 600 ohm circuit; 3x2.6x2.3, 2 lbs. #C-288 $4.00

#D1621946, 2-windings 400 & 9 ohms; 3.1x5x1.7 2# $4.50

DUAL CHOKE, 0.05H 500 ma 1.36 ohm; 3½x4x2¾, 4 lbs sh. #3C57527-5 $3.00

Pri: 115 V 60 Hz
Sec: 500 VCT 100 ma, 600 VCT 150 ma, 6.3 VCT 3 A
Size: 5x4½x3¾, 10 lbs sh.
#MB-1281, $5.95

HV RECTIFIER TRANSFORMER, primary 117 V 50-60 Hz; Sec: 5 VCT 10 A 21500 V test Jumbo 4-pin tube socket; 4.5"L top & bottom insulators. 22 lbs sh. #647-7698, $15.00

MULTI-VOLTAGE ISOLATION TRANS.
PRI: 73/88/95/105/115/125/190/210/230/250. 50/60 CY
SEC: 17.6/35.2/189 193/196/200/203 @ 1.6 AMP.
9½x4½x7½; 40 LBS. 2Z9619-6 $14.95

SWINGING CHOKE, 10/25 HY 125/15 ma. 4½x3½x4½, 6 lbs. #TFIRX04LB/FGC-29, $5.95

DUAL CHOKE, 30 Hy 25 ma 1350 & 5 Hy 135 ma 150; 2½x5x2½, 3 lb. #6663, $3.

VARIABLE TRANSFORMERS

120 VAC 60 HZ in; 0-120 VAC output Used-checked; knobs and dials included:
4.5 amp, NEW $28.95
10 amp $35.
12 amp $42. 20 amp $65.
50 amp $145.00

240 VAC input; 0-240 V out
2 amp $16. 8 amp $47.

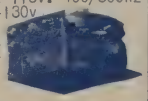
QUANTITIES LIMITED. Write your needs; stock changes!

12 VOLT 60 HZ input, 0-3.5 V 2 amps out. #5-1066, $3.

VARIAC M-5/RMS11-2, 0-135V @ 5 AMPS FROM 114 VAC 400 HZ INPUT. #7486, $12.95

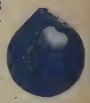
VARIAC M20BB 120 VOLT 350 20 AMP. MOTORIZED 115V400 #5950-089-7734 NEW $65.00

115VAC 60HZ 9AMP GANGED FOR TWO PHASE MOTORIZED 115VAC 60HZ CN-54/FST-1 USED, $50. LESS MOTOR $45.



POWERSTAT, 115v. 400/800HZ OUTPUT: 0-130v 7.5 AMPS, 0.975 KVA. #5950-518-2508, NEW $13.95

KNOBS FOR VARIACS



2-3/8" dia. fits 3/8" shft. W/ptr. Luxitrol, $1.50

4" dia WHEEL with pointer for 11/16" dia shaft. #KNOB-35 used $3.00

DIAL PLATES, unused:
4" dia 0-100 scale; 7/8" dia ctr hole. Takes three screws; #BP8087, $1.00 ea

10" dia 0-100 scale; 1.5" dia ctr hole. Takes four screws; #BP653, $2.50 ea

POWERSTAT variable transformer, 120 VAC 380/1000 Hz input; output 0-120 VAC 13 amps. 7x6.2x3.3, 9 lbs sh. #GA-50650L, used, $18.95

SCREWS. #BP653, $2.50 EA

TF-238 400 Hz LINE REGULATOR, input 100-130 VAC 400 Hz; output 115 VAC -5 V 400 Hz 7.5 KV. Uses 13 amp variable transformer and buck-boost transformer; p/o TPS-10 system. 10½x14¾ x9¾; 55 lbs sh. Unused $75.

SWINGING CHOKE
2.5/12.5 HY
200/20 MA
2.5x3x1.9 3#
#L601/390A,
Used, $4.

POWERSTAT 21

POWERSTAT TYPE 21 VARIABLE TRANSFORMER, 120 VAC 50/60 Hz input; output 0-140 VAC 4.5 amps 0.63 KVA. 3.8x4.3x3.5, 5 lbs sh. NEW, w/knob & dial, $28.95

LUXITROL D2500H 0-120 VAC 20 amp 2500 W; easy-to-use vertical mount style. With knob but no dial plate. 9.3x10.6x4, 10 lbs sh wt. Used, $64.00

LUXITROL D6000H 0-120 VAC 50 A 6000 W; vertical mtg with knob & dial, 35#. Used, $150 $130.

6.7 Hy 215 ma 2100 V test; 4#6.5x3.3, 8# #UX6911, $5.

1 hy 235 ma 80 ohm 2x2x1½;8 oz #0146 $2.00

34 HY 35 MA 360 ohm; 2.6x 3.3x2.5, 3#. #L1/1193 $3.50

5.5 HY 325 MA 4500 V test 5.3x4.1x4.6, 15#. #L1/AM-2353, $6.00

3.5 HY 500 MA 100 V. 60 CYC 30 OHMS 715WV 4x5½x3½;10 LBS TFIA04KA/A8649 $2.95

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11 HY 500 MA 55 ohms, 10 KV test. 9x7x6; 42 lbs sh wt. #3C557N/610, used $12.00

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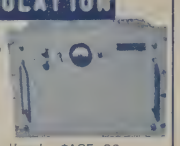
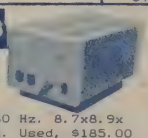
2 Hy 100 ma 1.9x1.5x1.6 1 lb. #SMD-422742 $2.25

LINE REGULATION



CN-1091/GSQ-76 LINE REGULATOR, input 115 VAC 47-63 Hz with output 115 VAC 60 amps. Has 2.5" dia 30-150 VAC meter and Output Increase adjust. sOLA MFG; 14x 19x12.5, 225 lbs sh. Used, $195.00

SOLA REGULATORS



SOLA MODEL 63-13-175, portable harmonic neutralized unit designed for computer applications. Input 95-130 VAC; output 120 VAC 750 VA 60 Hz. 8.7x8.9x 18.6, 65 lbs sh. Used, $185.00

SOLA #23-22-125, CVS harmonic neutralized hard-wire type. Input 95-130 or 190-260 VAC; output 120 VAC 250 VA 60 Hz; 9.6x 7.5x5.4, 32 lbs. Unused, $85.00

SOLA #63-13-114 PORTABLE LINE REGULATOR, best quality CVS-type. Input 95-130 VAC 60 Hz; output 120 VAC 140 VA 60 Hz. Two outlets, On-Off, and cord. 5.6x5.8 x11.7, 18 lbs sh. NEW, $85.

400 WATT REGULATOR

SOLID-STATE LINE REGULATOR, use to protect your valuable equipment from line variances and spikes. Input 96-132 VAC 50-60 Hz; output 115 VAC +5% 0.75 to 3.5 amps. Harmonic distortion 12% total max; circuit breaker. MIL-spec quality; 11x 6.5x11, 70 lbs sh. #102-5675, unused, $49.50

3-PHASE ISOLATION TRANSFORMER for large computers. Pri 220 VAC 3 Ø; Sec 200 VAC 3 Ø 26 amps 50/60 Hz. Has casters, 25 ft power cable & 220 V outlet. 18.5x15x21.5, 250 lbs sh. Musashi #SSB-J0064-6, NEW $250.

ANTENNAS

HY-GAIN ANTENNAS

HY-GAIN MOBILE-COM ANTENNAS, new: 760-SERIES antennas include 52" whip, 2.5"H spring base, 18' RG-58 coax cable, PL-259 connector, & UG-175 reducer; 5 lbs NEW, $9.95 ea: #761 (30-33 MHz) #762 (36-42 MHz) #767 (33-36 MHz)

280-SERIES mobile coil antenna w/ 52" lg whip & 2" dia loading coil: #280 10 meters, 2-3/4"H coil $9.95 #281 15 meters, 2-3/4"H coil $9.95

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3 FOOT MAST SECTIONS (left), painted copper-coated steel; sequentially screw into each other with 3/16" dia MS-49 top section smallest thru 5/8" dia MS-54 largest. Sections self-supporting to 15'H; MS-53 can fit into another MS-53, 1 lb sh. May need paint. MS-49-50-51-52-53, used $1 ea. Unused $1.50 ea. MS-54 used $2.50; Un $4.

CW-206 ROLL BAG for MS-116-117-118 mast sections; 40"Lx3"Hx5"W, used, $6.00.

FIXED STATION BASE for AT-271/PRC antenna; black phenolic 3¼" dia base w/silver-plated receptacle; BNC connection, and load coil 2 lbs. #CAN-100-7555 $4.

MP-65 MAST BASE similar to AB-15 below except 4"Lx3" dia insulator; o/a 17"L; 4 lbs. $12.

AB-243 CORNER BRACKET f/ MP-48-57 and AB-15 bases. (Pictured w/AB-15 below.) 8 lbs sh. Used, $7.00

MOUNTINGS f/MX-6707 used: #SC-D-189023 f/base, $10. #SC-D-446058 corner, $10. EXTENDER f/SCD-446058 $6.

AB-15 MAST BASE for MS-116-117-118 or AB-21-22-23-24 mast sections; spring action with 3.3"L x3" dia ceramic insulator and bottom terminal. Requires 2" dia hole for mounting. O/a 15"L, 3#. Used, $6.95

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MS-116-117-118 MAST SECTIONS, each 39.3"L. MS-116 is stackable bottom section, MS-117 is middle and MS-118 is tapered top; 1 lb sh each. Used, $3.50 each

AT-101/ GRC-9 LONG-WIRE ANTENNA, 107.5 ft #15 stranded-copper w/8 insulators & jumpers to adjust 4.3-12 MHz frequency; 3 lbs. $10. AT-102, 2-4.3 MHz $9. AT-101-102 SET, $15.

AS-1321/PRC-47 LONG-WIRE ANTENNA, 45 ft vinyl-covered with insulators at 15' and 25'; clips at insulators adjust length. 4 lbs sh. Used, $12.

AT-339/PRC-6 HOMING ANTENNA 38-55.4 MHz range. Hand-held folding loop; 5-step output attenuator, 4' cord w/BNC connector. Loop 24"H; 12.5x5x2.5 collapsed. W/canvas bag, 6#. $10.

ANDREWS #83799 similar to 87R connector for HJ7-50A Heliax cable; 1-5/8" EIA flange, 50 ohm. With installation kit; 6 lbs. NEW, $20.00

CU-92/APN ANTENNA COUPLING UNIT is a impedance matching device enabling the operation of 2 receivers from one ant. has one SO-239 & 2-binding posts and tuning adjustment 500 Khz-4 Mhz, $3.95

TM-218 TERMINAL, p/o BC-659, unused, $8 W-128 wire, 2 ft, $2.50; 6 feet, $6.00

AS-27A/ARN-5 Horizontal folded dipole used on BC-733,ARN-5 Receivers 108-110 mhz etc. $10

AT-438/GR DIPOLE ANTENNA 15" folded,takes PL-259 coax. conn on insulated bracket.$15

ANTENNA WIRE SOLID COPPER #10 VINLY COVERED,250FT#4884C $25

MP-54 OFF-SET BASE FOR AB-15; OFFSET 7" FROM BASE CTR. 11½"H. $7.95

AS-2108 ADF LOOP, 100-3000 KHz; 28 VDC, 11.8x11.8 x1.3 4 lbs Used $16.

VIS-O-GLOW NEON LIGHTNING ARRESTORS, #4392, $1.00 EA.

8 FOOT DISH ANTENNA

AS-554/TRC 8' dia ANTENNA with aluminum mesh paraboloid surface. Designed for 1700-2400 Mhz with 30 db gain; 4.5 Mhz bandwidth. 20 db major to minor lobe ratio. Rugged military construction; looks like one can add onto and extend the cast aluminum supports to increase dish diameter. 36" feedhorn focal length; 16" fall from edge to center. Shipped in sections with feedhorn and yoke. Mesh may have minor but repairable breaks. 425 lbs sh wt. Used ~~$380.~~ $285.

AS-1729 ANTENNA SET

AS-1729/VRC ANTENNA SET, consists of MX-6707 matching unit-antenna base, AS-1730, and AT-1095 fiberglas mast sections; designed to be used with RT-246-524/VRC transceivers and vehicular installations of PRC-25-77 radio sets. MX-6707 has automatic or manually tunable frequency ranges 30-33, 33-37,37-42, 42-47.5, 47.5-53, 53-56, 56-60, 60-65, 65-70.5, and 70.5-76 MHz FM; also BNC connection for RF. Bottom mast section AS-1730 is 52.5"L, upper AT-1095, 64"L; MX-6707 14.3x5.5" dia. 15 lbs; used, $49.95

MANUAL for AS-1729, partial repro, $8.50

MX-6707 MATCHING UNIT only, used, $29.95

AT-1095 or AS-1730 masts only, $12.50 each.

AB-21-22-23-24 MAST SECTIONS, 27"L (AB-21 is bottom), 1# sh ea. Used, $2.50 ea

AN-45 Antenna f/BC-620 (SCR509-510) transceiver; telescopes 17¼"-98½", unused $7.50

AT-PRC6 FLAT RIBBON ANTENNA for RT-196/PRC-6 transceiver, 30"L, used $4.00

AT-272A RIBBON ANTENNA & AT-272 FLEX-BASE SET f/PRC-8-9-10; 2 lbs. Used, $8

AT-1096/VRC MAST SECTION, used with MX-2799 matching unit and AT-1095 mast; used, $15.

AN-130 WHIP ANTENNA for BC-1000, used, $10.

ANTENNA SPRING MOUNT, p/o MX-6707 described above; #SM-C-542037, used, $7.50

MP-74 GOOSENECK BASE for MS-118/AB-23 Mast Sections,14" lg. w/spade type bracket for side mounting. $2.00

M-422 ADAPTER for using MS-116/AB-23 sections with PRC & BC-1000 as long ant. $2.00

AB-129 Rubber Base f/AT-271 on PRC-8-9-10 $2.

AB-591 Rubber Base f/AT-271 on PRC-25-77, $4.

AB-1093/USQ-42 WHIP ANTENNA w/spring base and PL-259 connector on base bottom. Lower two sections telescope 21"-35¼"; screw-on 18¼"L wire-like top section. NEW $15

40-100 MHZ YAGI ARRAY

AS-756/TRC TWO 3-ELEMENT YAGI ARRAY for 40-100 MHz range, 5 db gain; vertical or horizontal polarization. Consists of array spacer bar, two antenna booms, and 12 each long, short, and subassembly antenna elements. Component lengths adjust according to frequency: spacer 58"-112", booms 72", elements 40"-58". Matching transformer built-into each boom. 95 lbs sh (UPS in 4 pkgs); AS-756, $79.50 #YA-756, single 3-element array f/AS-756 $36.

AB-101 MAST SECTIONS for ANTENNA SUPPORT, steel mast 2" dia X 68" long with swaged end and locking device; sold in sets of 7 only. 100 lbs sh - no UPS. Used, ~~$50.00~~ $38.00

GUY-WIRE & STAKES

OA-7908/G GUY SET for anchoring field antennas or similar tall free-standing structures. Includes three MX-2719 32 ft 1/8" dia steel guys each with pulley and brake, two pinned hook rings and four insulators; four GP-2 15" guy stakes, three GP-11 16" stakes with snap rings, and canvas bag. 26 lbs sh. Used, $24.95

ARA-31 HOMING SYSTEM

AN/ARA-31 ANTENNA SYSTEM FOR HOMING RECEIVER

KY-149 CU-459

For use in the 24 to 49 Mhz FM range. Complete system consists of four AT-624 24" antenna elements, two CU-459 ant. element connectors, a KY-149 keying unit w/mtg. and one SA-474 switch box. BNC connections except for one reverse pole BNC. An/ARA-31 w/manual, new, $50.

AT-624 antenna element, $8.00 each.
CU-459 antenna connector, $5.00 each.
SA-474 switching box, $6.00 each.
KY-149 keying unit, ~~$25.00~~ each $18.95

LP-21 LOOP ANTENNA, used with 200-1500 Khz radio compass receiver; has 24 V 400 Hz motor for rotating loop and autosyn to transmit to I-62 or similar indicator Teardrop shape for aircraft; 30 lbs. $25

AS-578/ARA ANTENNA for ARC-27-34-55 direction finding sets; 15 lbs. Used, $25.

AS-313/ARN-6 ANTENNA LOOP for AN/ARN-6 radio compass system; 18 lbs. Used, $15.

MAST MOUNT

ADJUSTABLE MOUNTING PLATE for antenna masts or pipe; three wingnut bolts adjust for 1.1"-2.25" dia pipe. 9" dia base; cast aluminum. 5.5"Hx9" dia 7 lbs sh. #MB-92110, used, $9.95

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SPDT ANTENNA RELAY, with unused contact grounded; part of 30 W 225-400 MHz transmitter. Coil 60 VDC 15 ma 4000 ohm; 3-BNC connections 2x1x2. #D-0089, unused $9.95

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SPDT ANTENNA RELAY

SPDT ANTENNA CHANGEOVER RELAY,6 vdc 20 ohm. Contacts appear to be good to 100 watts.BNC type conn 3x1tx2. #5945-539-3025 unused$7.95

CP-12-13 COUNTERPOISE

CP-12-13 COUNTERPOISE heavy rubber-covered wire spreads to form 15 ft dia radial network for ground plane antenna; used with MS-116-117-118 mast sections; 4 lbs sh. Used, $12.00

GY-12/42 GUY ROPE SET, 3x20' lengths, $7 M378 ROPE, 80', $6. M379, 10', $1.50

HYE-QUE ANTENNA

BUDWIG HYE-QUE antenna insulators and strain connector for long-wire installations; full legal power capacity and weather-tight polymar construction. NEW: #HQ-CONN strain assembly with PL-259 connection for lead-in wire drop, $5.50 #HQ-INS-PR, insulator pair, $1.25/pr

ANTENNA WIRE & REEL

AS-207/CRT-3 WIRE & REEL ASSEMBLY, 300 ft #16 strand-braided cadmium alloy copper wire on RL-49 reel and crank; mounted to aluminum door with adjustable brake and snap swivel. Part of CRT-3 "Sibson Girl" transmitter antenna which attached to kite or balloon. 2x4.5" dia; 3 lbs. Unused-complete wire, reel, door, $9.95;

CABLES

NEW COAXIAL CABLE

NEW MANUFACTURE AND BRANDED WITH STANDARD TYPE NUMBERS TO MIL-R-17A SPECIFICATIONS.

PRICES LISTED FOR LENGTHS INDICATED, IN-BETWEEN LENGTHS USE THE HIGHER PRICE. LESS THAN 100 FEET ADD 10% TO HIGHEST PRICE

COAX RG- #	Ohms	100 feet	500 feet	1000 feet	5000 feet
RG-8/U	52	.22	.21	.20	.20
RG-11/U	75	.20	.19	.18	.18
RG-58/U	53.5	.11	.10	.09	.09
RG-59/U	73	.14	.13	.12	.12

Prices subject to change without notice.

NEW COAXIAL CONNECTORS

SO-239 $.69 ea 10 or more $.65 ea

PL-259 $.79 ea 10 or more $.75 ea

CH-259 75¢ ea. 10 or more 70¢ ea.

PL-258 JUNCTION $1.50 ea 10 or more $1.25 ea

#SH-SO-239, one hole mt SO-239 $.65

#83-58FCP, short barrel PL-259 for RG-58, 50¢

UG-260 BNC conn for RG-59, $1.

COAX CONNECTORS

CONNECTORS & ADAPTERS: (m) male, (f) female, (bulk) bulkhead, (rec) receptacle, (r/a) right angle; (U) used, (Un) unused.

TYPE BNC: UG-88 m (RG-58) U $.55; Un $.85
UG-260 m (RG-59) U $.60 UG-291 f panel U $1.
-260 " Un $.85 -909 bulk U $1.
-273 to UHF, Un $2.00 -913 m R/A Un $2.
-282 to post $1.50
-290 f rec U $.65

TYPE C: UG-573 m (RG-8) U- $1.50 ea
UG-626 m (RG-21) U $2. UG-710 m R/A Un $3.
-943 (RG-21) U $3.

TYPE N: UG-21 m (RG-8), NEW, $4.00 ea
UG-27 m/f R/A Un $2.00 UG-201 (f) to BNC
-30 f-f bulk Un 2.00 (m) Un $2.50
-58 f chassis U 1.50 -593 f chassis bulk U $2.00

TYPE TNC: Gremar #6006 m Un $2.50; U-$1.50
#6177 m R/A Un $3. #6098 to N f bulk U $3.

BALANCED ANTENNA INPUT for R-390A receiver:
STAR 7162 (RG-58) U $5. UG-971 to C, U $7.

UG-100 m U $1.50 DA-113 dummy U $5.00
-109 f/UG-100 $1.50 UG-212 HN R/A Un $3.
-920 R/A HN (m) to HN (f), unused, $3.00
M-359 elbow: PL-259 to SO-239 U $.80; Un $2.

COAX CABLES from mil-equipment; used-unused: CG-4096 CABLE, 74" RG-58 w/2 UG-88 BNC, $4. RG-9 w/two UG-573 "C" connectors, 6", $2.50 RG-59 w/male & female "N", 50', #CG-357, $3. RG-213 w/two right angle male "N", 36", $6. TNC-BNC CABLE, 3"L; r-a BNC, strait TNC, $4.

WIRE SALE

VINYL-COVERED HOOK-UP WIRE, limited colors; all stranded copper. May not have continuous lengths over 2000'; no color choice.

#14	$6.50/100'	$42/1000'	$185/5000'
#18	$3/100'	$14/1000'	$50/5000'
#20	$3/100'	$12/1000'	$45/5000'
#22 shielded	$3.50/100'	$22/1K'	$75/5K'
#26 solid	$6/500'	$9/1000'	$30/5000'

AIRCRAFT-TYPE WIRE, nylon insulation w/braid covering; silver-coated wire and shield:
#22 stranded, $4.50/100' 10x100'/$32.

COMPUTER CONTROL CABLE in black PVC jacket, #24 wire in color-coded vinyl; LV-low voltage

	Cond		10'	100'	500'	1000'
#CC24-28LV	28	$/ft	.45	.32	.28	.22
CC24-14	14		.32	.28	.24	.18

U-226 HEAVY DUTY CONNECTOR, 10 contacts (5-male/5-female) each gold-plated 0.1" dia and arranged so that U-226 mates with other U-226. Has locking cap; 2.8" dia X 5.5"L plus 4" sleeve, 2#. Unused-cutoff $5. 2/$8

BUNKER RAMO AMPHENOL

Sale!

RF and AUDIO CONNECTORS, all new package; Male (M), Female (F)

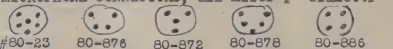
BNC quick assembly:
#31-
-4701 50 (F) $1.
#31-4702 70 (M) $1.25; -4703 70 (F) $1.25

UHF-types: #82-23 (M) to (F) w/ground, $1.50
#83-5SPA, press male to (F) adapter, $1.25
83-58FCP, short barrel PL-259 f/RG-58, $.50

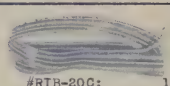
83-877, adapter with PL-259 each end, $1.25
#83-23 UHF m-f lightning arrestor, $2.50

82-831 push-on chassis BNC (f), NEW, $.45
#81-103 mini plug or #81-104 mini jack, $.50

MICROPHONE CONNECTORS, all males ⅝" diameter



#80-23	80-876	80-872	80-878	80-886
press fit 60¢	lock ring $1	extended pins 60¢	lock ring $1	threaded barrel $1

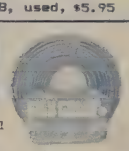


RIBBON CABLE for computer wiring or similar jobs; 20-conductor #22 stranded wire with ten color codes.

#RIB-20C:	10'	100'	500'	1000'
Price per foot:	$.50	$.40	$.30	$.20

MULTI-LINE TELEPHONE CABLE, 18 feet of 50-conductor PVC jacketed cable with Cinch 77-72500 blue connector on one end and terminal lugs on the other; a nice ready-made piece for those complex wiring jobs. 3 lbs; #50-TC-18, used, $5.95

BELDEN TV WIRE



BELDEN "CITY COLOR" SHIELDED TWIN-LEAD TV WIRE; two 26 AWG 7x34 stranded copper-covered steel conductors with Beldfoil shield. Recommended for VHF-UHF-FM use in high interference metro areas. 75 ft (3#), $8. 100 ft (4#), $10.00

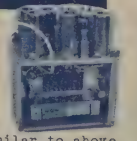
"O" GAUGE CABLE

2-CONDUCTOR "O" GAUGE COPPER CABLE in PVC jacket. Use for welder or jumper cables or generator hook-up. Each 2-conductor at length indicated: #8369-25, 25 feet, $25.00 #8369-50, 50', $42. #8369-100, 100', $70. LESS than 25 ft, $1.25/ft; (Weight 1 lb/ft.)

CODE SIGNALING LAMP

CANADIAN MORSE CODE SIGNAL LIGHT, mirrored reflector tilts by trigger in handgrip; site-tube on top. Usable also as spot light. Includes 4" clear lens, 10' cable, and carrying case. Light bulb not available (change socket for common bulb). 9x 6.3x8, 15 lbs. #CAN-5A, used $10. Extra 4" LENS, red, blue, green or clear, $1.50; 4/$5.

COLLINS 250 KHZ I.F.



250 Khz IF ASSEMBLY from Collins 618S-1 transceiver. Has 250 Khz mechanical filter with 6.7 Khz width and tubes 3/5749 and 2/5726. 4¼x6x3½, 3 lbs sh wt. #IF250-67/618S1, used, $12.95

250 Khz IF ASSEMBLY from RT-311/ARC-38 transceiver. Similar to above but with two mechanical filters--one 2 Khz width, the other 8.5 Khz. #IF250/ARC38 $24.95

250 KHZ CRYSTAL OSCILLATOR from Collins 618S1. Has 250 Khz BFO oscillator coil, crystal oven with CR-46 250 Khz crystal, and 2/5749 tubes. 4¼x6x1⅛, 2 lbs sh. #OSC-250/618S1, $6.95

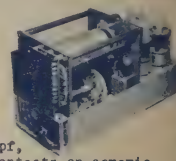
XMITTING CAPACITORS

MICA TRANSMITTING CAPACITORS, G-SERIES TYPE IN USED OR UNUSED CONDITION DEPENDING UPON A VALUE'S AVAILABILITY. VARIOUS MANUFACTURERS. SATISFACTION GUARANTEED OR PURCHASE PRICE WILL BE REFUNDED. OTHER VALUES IN STOCK. WRITE.

TYPE	KV	MFD	KV	MFD
G1, 2¼"h x 2¾" dia, wt: 3 lbs. $12.50 eac				
	1.0	0.04	6.0	0.0001
	1.5	0.08	6.0	0.0002
	3.0	0.02	6.0	0.00024
	4.0	0.0062	10.0	0.00015
G2, 3½"h x 3" dia., wt: 5 lbs. $18.50 eac				
	2.0	0.03	10.0	0.00015
	2.0	0.045		
G3, 5"h x 4" dia., wt: 8 lbs., $27.50 eac				
	2.5	0.15	6.0	0.006
	5.0	0.02	20.0	0.00015
G4, 5"h x 5¾" dia., wt: 12 lbs, $39.50 ea				
	4.0	0.084	6.0	0.0373

ARC-38 OSCILLATOR

O-215/ARC-38 STABILIZED MASTER OSCILLATOR ASSEMBLY from Collins-made RT-311/ARC-38, an aircraft HF transceiver. Utilizes series-fed electron-coupled oscillator, a more stable frequency variation of the Hartley-type. Step-adjusted inductor covers 14000 positions to tune oscillator frequency of 1.75 to 3.5 MHz in 125 Hz steps. Includes Collins SMO #70E-22, discriminator #147A-1, 27.5 VDC motor gear drive and tubes 3/6AK5, 6BA6, 2/6BE6. Many parts common to ARC-38A SMO assembly. 6x 6.5x10, 15 lbs sh. Used, w/schematic, $35.00



618S-1 POWER AMPLIFIER, p/o Collins 2-25 Mhz 100 watt transceiver. Has 12.3 uH roller inductor; coil 3¾x1½" dia with 27 turns #14 silver-tinned wire rotated by 115 VAC 400 Hz selsyn. Also ten Centralab 850 HV capacitors 10 pf, 50 pf, 7/100 pf, and 1000 pf. Big silver contacts on ceramic switch; uses three 6159 tubes. 11x5x6, 10 lbs #3496/618S-1, less tubes, $22. With tubes $30 MATING CONNECTORS, 2 required, $2.50 each. SCHEMATIC for 618S-1 power amp, $1.50

ANTENNA TUNER

ANTENNA TUNING ASSEMBLY with two 20-400 pf 0.02" air gap variable capacitors. Each rotates 180° in 10 sec using 24 V 60 Hz and 4 mf 330 VAC capacitor (not included); can be adapted to differential use. 360° rotation actuates fixed capacitance in parallel over next 270° in 13 steps. 400 Hz servo motor runs on 24 V 60 Hz; intermittent 115 V 60 Hz required to engage fixed capacitance steps. W/schematic; 4.3x6.5x3.3, 5 lbs. #2C1003/T-195, used, $10. VAR-CAPACITOR 20-400 pf; #C1003-VC, $5.95 ea

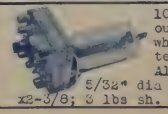
VARIABLE SPEED DRIVE CONTROL USED WITH MOTOR AM No. E-85-132. GE#3S750RJ750A1, FIELD 100 VDC ARM., 140 VDC., 2.6 A INPUT 230 V. 50/60 HZ. 5 LBS

Unused w/schematic $15.00

MOTORS

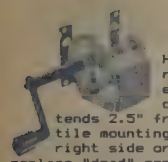
115 VOLT AC-DC MOTOR, starts at 15 VDC; runs counter-clockwise. 3" dia X 5¼" lg plus 5/16" dia X 1-1/8" lg threaded shaft. 5 lbs sh. #AC-DC-R102, unused, $4.95

115 V AC-DC MOTOR, starts at 25 VDC, runs clockwise. 2¼x3x4⅛ plus 5/16" dia X 1⅛" long machined spiral shft. 3 lbs. #AC-DC-H102, $3.



100 RPM 12 VDC GEAR MOTOR, output at 3/8" x 1/8" bar which would mate with slotted shaft (not included). Also 3400 RPM available on 5/32" dia x ½" lg shaft. O/A 5¼x2¾x2-3/8; 3 lbs sh. #LEE-11152S unused, $8.95

HANDCRANK

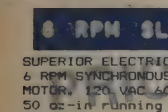


HANDCRANK MAGNETO GENERATOR removed from telephone equipment; features long crank with shaft which extends 2.5" from the generator and versatile mounting plate that allows left or right side or bottom mounting. Use to replace "dead" generator in your antique phone, or as remote signaler (ring bells/buzzers), or as "worm shocker"; 4 lbs sh. #MAG-GEN-1085, used-checked, $15.00

100 RPM 1/5 HP MOTOR

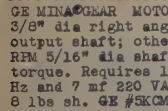
BODINE ECCI-35E2, 115 VAC 2.2 amp, 1/5 HP 1700 RPM motor with 100 RPM reduction gearhead; 100 lbs-in torque. 2"L x 5/8" dia shaft with 3/16" square key; motor 4.5x4.5 x8.8. With capacitor; 12 lbs sh. Used $18.95

6 RPM SLO-SYN

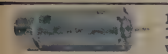


SUPERIOR ELECTRIC SLO-SYN 6 RPM SYNCHRONOUS STEPPING MOTOR, 120 VAC 60 Hz 0.5 A 50 oz-in running torque. Reversible instant start-stop. 3/8" dia stainless steel shaft; on mounting plate with capacitor. 7.3x4.5x5, 7 lbs sh. #SS50-1292BU, used, ~~$17.95~~ $13.95

GE MINIATURE GEAR MOTOR, 328 RPM 3/8" dia right angle output shaft; other 3500 RPM 5/16" dia shaft, 5 in-lb torque. Requires 115 VAC 60 Hz and 7 mf 220 VAC capacitor; o/a 4x10x3, 8 lbs sh. GE #5KCM49NG, used, $8.95 CAPACITOR for above, 7 mf 330 VAC, $1.35

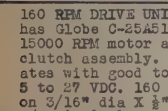


MD-34/ARA-8 MODULATOR-KEYER, p/o automatic homing keying assembly; contains Oster BT-2-1S 28 VDC shunt motor, 12000 RPM 1.1 amps connected to double worm reduction with output of 32 to 50 RPM over 10-26 VDC. Also has phase shift capacitor and RF UHF connectors. 3½x10x4½, 5 lbs. Used, $3.95

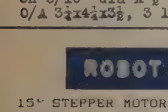


DC MOTOR, operates over 10-15 VDC 100 ma 2375-2425 RPM with governor. Shaft 5/16"L x1/16" dia; o/a 2-7/8x1-1/8. #AST-GK26 $7.95

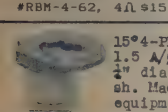
160 RPM DRIVE UNIT w/clutch has Globe C-25A512 27 VDC 15000 RPM motor and 27 VDC clutch assembly. Motor operates with good torque over 5 to 27 VDC. 160 RPM output on 3/16" dia X ½" lg shaft. O/A 3¼x4¼x3½, 3 lbs. #160DRV/618 used $8.95



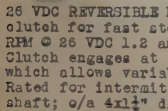
ROBOTICS MOTORS



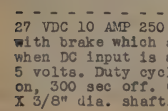
15° STEPPER MOTOR from printer; requires +9 to +40 VDC. High speed and performance w/driver circuit info. 1x1.3" dia shaft; o/a 5.8"x1.6" dia, 2 lbs. #RBM-2-62, 2 ohm field, $12.50 #RBM-4-62, 4Ω $15. #RBM-6-62, 5.8Ω $17.00



15°4-PHASE VR STEP SERVO, 5 ohms 1.5 A/Ø; 28 VDC input pulse. ¾x ¼" dia shaft; o/a 3x3¼x3, 2 lbs sh. Made in Canada; removed from equipment. #20M54C1, $9.95



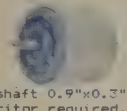
26 VDC REVERSIBLE MOTOR with clutch for fast stops; 12K RPM @ 26 VDC 1.2 amps. Clutch engages at 10 VDC which allows variable speed over 10-26 VDC. Rated for intermittent duty. Spline 3/16" dia shaft; o/a 4x1½" dia, 1 lb. #GR-215 NEW $6.95



27 VDC 10 AMP 250 RPM MOTOR with brake which actuates when DC input is approx. 5 volts. Duty cycle 30 sec on, 300 sec off. O/A 2¾x2¾x6¼ plus 7/8" long X 3/8" dia. shaft. 5 lbs sh. #2312-6, $7.95

GE DC MOTOR 27.5 VDC 2.5A .044HP 7400 RPM2.5x1.75 plus .35 in long 3/16 shaft sh wt 3 #5BN14EA2-6822 $7.95

#A7155 DELCO DC MOTOR, 28 VDC 2.4 A 1/30 HP 3600 RPM. Size: 5¼x2⅜" dia; shaft 1" x¼" dia, 2 lbs. Unused $4.



INDUCTION MOTOR, Eastern Air Devices J71-B. 115 VAC 60 Hz 0.25 amp input for 1/40 HP 3100 RPM output. Quiet running; good replacement motor for blowers. 3.1"x3.5" dia, shaft 0.9"x0.3" dia; 3-lbs sh. External capacitor required. #548-2239, unused $4.95; 4 mf CAPACITOR, $1.

28 VOLT MOTOR, 135 RPM; HP: 1 oz/IN. WITH 5/16x¼" DIA. GEARED SHAFT; HAS 4 SOLDER TERMINALS ON 1x1½x⅝ BLOCK. MOTOR SIZE: 5x1-7/8 DIA. WT: 1 LB. GE#5BA10FJ444 USED, $7.95

DC STEPPER MOTOR

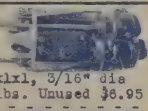
PM DC STEPPER MOTOR. dual coil--CW and CCW rotation; each coil 5-pole (72°). Motor has gear box resulting in 180 2° steps for each rotation of output shaft. Coil 17 VDC 29 ohms but works well on 5 VDC at reduced speed and torque. Motor 1.4x.6", shaft .4"x.1" dia O/A 2.3"x1.5"; Airpax #A82302, $4 ea 2/$10.

0.7 RPM GEARMOTOR, 115 VAC 60 Hz, 110 oz-in torque; 3/4"L x1/4" dia shaft; w/shaft coupler and microswitch assy. 2.3x2.3x2.3, 5.5"L w/ assy; 3#. #RBH2505-14 used ~~$15~~ $11

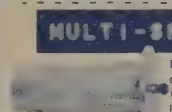
BARBER COLEMAN AC GEAR MOTOR, 230 VAC 60 Hz; approx 3½ RPM. 5/16" dia shaft X 7/8" long; Size: 2½x3½x3, 2 lbs sh. B-C #108134483 NEW, $3.95

MOTOR W/RIGHT ANGLE SHAFT & MOUNT, 1/8 HP 230 RPM. SHAFT SIZE: 5/16" LONG X 3/8" DIA. CLEARANCE BETWEEN SHAFT AND MOUNTING ABOUT 1" REQUIRES 115 VAC 60 Hz @ 1.9 AMPS. SIZE: 7x3¾ DIA. WT: 15 LBS. ROBBINS & MEYERS #KL-H330, $12.95

SA-28 AIRCRAFT INSTRUMENT ASSEMBLY with 27 VDC PM motor, 10000 RPM with worm gear assembly and other parts. Motor size 1¼x1x1, 3/16" dia shaft; o/a 6"Lx3¼" dia, 2 lbs. Unused $6.95

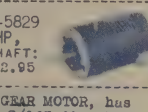


MULTI-SPEED PM MOTOR

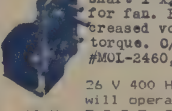


MULTI-SPEED 24 VDC PM MOTOR can be wired for 11500 RPM 0.012 HP 0.7 amp or 3000 RPM 0.035 HP 2.3 amp operation; motor starts to turn at.9 VDC and is reversible. 6"x2.3" dia with 3.5" dia collar; geared shaft 0.6x0.4" dia. 3 lbs sh. Sperry #2960031, used, ~~$12.95~~ $8.95

JOHN OSTER TYPE C-24A-1B KS-5829 SERIES MOTOR; 27 VDC, 0.01 HP, 7000 RPM. SIZE: 3x2 DIA.; SHAFT: 1x¼ DIA. WT: 1 LB. Unused, $2.95



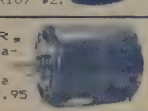
200 RPM 32 V 60 Hz GEAR MOTOR, has shaft 1"x¼" dia and 3/16" dia shaft for fan. For intermittent use, increased voltage increases torque. O/a 5½x5x2¼, 3 lbs. #MOL-2460, unused, $3.25

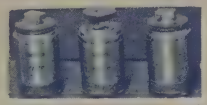


26 V 400 Hz 2750 RPM MOTOR will operate from 12 VAC 50 Hz: 3x2.8x3, 2#. #B701/R107 $2.

12 VDC MOTOR,

3000/5000 RPM clockwise rotation; 40 oz-in torque. 4"L x3" dia plus 3/4"Lx5/16" dia shft. 4 lbs. #C65010-12, $7.95





CONTROL TRANSMITTER SELSYNS, similar to AY201 rotor 26 V 1 Ø, stator 11.8 V 3 Ø 400 Hz; usable in wind direction and antenna position projects. Various mfg; 1 lb. #WD-CX-SEL $6.

AY-165 AUTOSYN DIFFERENTIAL, 400 CYCLE, 11.8 V. 3 PHASE ONE TO ONE RATIO. BENDIX & OTHERS. SIZE: 1⅝x1⅝. PRICE: REMOVED FROM EQUIP. $2.95
AY-231 AND AY-232 SAME SPECS. AS ABOVE.
15CX4 TRANSMIT 115 VAC 400 Hz, used, $4.95
15RS4L RESOLVER 26/11.8 V 400 Hz, used $4.95

23TR4 RECEIVER, 115 VAC 400 Hz, used, $10.00

23CT6 TRANSFORMER 90/1 V per degree 60 Hz $10

SELSYNS

2J1G1 SELSYN CONTROL TRANSFORMER, 57.5 VAC 400 Hz; usable in pairs for remote position indication and light duty turning applications. Operable from 24 V 60 Hz with good resolution and torque. ⅜" long shaft tappered ⅛", then threaded ¼". O/a 4⅜x2½ dia; 2 lbs. #2J1G1, less connector cap $7.50; w/cap $9.50

MK II SIZE 6 SELSYNS, 115 VAC 60 Hz; sold in mated pairs for rotational and position-indication uses. 7⅜x4½ dia, 12 lbs/pair. Used-checked, various manufacturers, $45/pair

SIZE 5 SYNCHRO DIFFERENTIAL RECEIVER, 115 VAC 60 Hz; used to show the sum or difference of two angular motions. 5⅜x3⅜ dia, 5 lbs. $10.

OTHER SELSYNS AVAILABLE. WRITE YOUR NEEDS.

2J1H1 SELSYN DIFFERENTIAL GENERATOR NORMALLY OPERATES FROM 57.5/57.5 VOLTS 400 CYCLE BUT WILL OPERATE FROM 26 VOLT 60 CYCLE AS SHOWN IN WIRING DIAGRAM ON PAGE 31. SIZE: 2¾x4¼; WT: 8oz. PRICE WITH CONNECTOR CAPS.....$3.95

DAYSTROM TRANSCOIL CONTROL MOTOR 115 VOLT 60 CYCLE, 1 PHASE, 2 PHASE 200 VOLT CT., 3200 RPM. SIZE: 2¼x2, SHAFT SIZE: 1/16x⅛ WITH GEAR. REMOVED FROM NEW EQUIPMENT. PRICE: $5.00

TACHOMETER GENERATOR, motor 26 V 400 Hz 2 Ø; generator 16V 400 Hz 0.3 V/1000 RPM. No load speed 10000 RPM. 2-1/8"Lx1" dia 3/16"Lx1/8" dia shaft. #TACH-SEL-MOD, $7.95

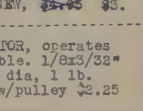
GAST PUMP & MOTOR

VACUUM PUMP & MOTOR, Gast #0440-V119 oil-less rotary vane pump and GE 115 VAC 60 Hz 1/3 HP 1625 RPM motor. Pump rated 4.0 CFM @ zero vacuum; 15" Hg continuous, 26" intermittent. Flex coupling thermally protects 7.4"x5.4" dia motor; mounted on 5.8x0.6x14.4 steel base. Inlet and outlet filters not available. 40 lbs sh. Used-as removed from service, $45.00

AIR COMPRESSOR

AIR COMPRESSOR rated 30 PSIG, 0.6 CFM max; suitable for air-brush work or light duty inflating. Diaphram-type unit uses 7 mf 330 VAC capacitor and operates from 115 VAC 60 Hz. Inlet 5/8" NPT; outlet 1/2". 8.3x4.6" dia, 15 lbs sh. #127P321, excellent, $27.95

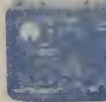
CHILD'S PHONOGRAPH TURNTABLE, 7" dia plastic platter with 115 VAC 60 Hz motor; selector switch for 33-1/3 or 45 RPM. Designed for child's record player. 2 lbs. BSR #M143AC37, NEW, ~~$3.95~~ $3.



SMALL RECORDER PM MOTOR, operates 4 to 12 VDC, reversible. 1/8x3/32" dia shaft; O/A 1¼x1⅛ dia, 1 lb. #R-357141, NEW $2.; w/pulley $2.25

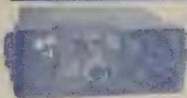
PRR-9 RECEIVER

AN/PRR-9 FM HELMET RECEIVER, extremely lightweight single channel radio in the 47-57 Mhz FM range; 5 mw nominal power output. Uses CR-81 type crystal (not available); 455 Khz IF. Requires 5 V 25 ma originally supplied by BA-505 battery (not available). With AS-1998 antenna and H-264 headset. 7x3¼ x1¼, 2 lbs. Used $38. Less AS-1998/H-264 $25. OPERATOR'S MANUAL for PRR-9, $7.50



ID-1189/PR CHANNEL ALIGNMENT INDICATOR, designed to test AN/PRR-9 and AN/PRT-4 transmitter. Has 47-57 Mhz signal generator; checks both sets' batteries. Instructions, probes, and transit case included. 12x11¼x6, 15 lbs sh. Used, $45.00

AN/GRA-6 RADIO CONTROL



AN/GRA-6 RADIO CONTROL GROUP for GRC-3 thru -8 series equipment. Includes C-433 (pictured), C-434, LS-166 speaker, H-33 handset, J-654 junction, CW-189 canvas bag, and manual. Group was used to control radios at distances upto 2 miles and also provided telephone communications. C-433 and C-434 each have handcrank ringing generator and bell; require two "D" cells each. 36 lbs. Used, ~~$75~~ $65. Unused, $100.

C-433, used, $16.00 C-434, used, $22.00
H-33, used, $15.00 LS-166 w/bracket, $15.
J-654, used, $ 6.00 CW-189, used, $ 7.00
MANUAL for AN/GRA-6 group, original, $7.50

\+ +

GRC and VRC RADIO CABLES and miscellaneous:
- CD-501, battery cable for SCR-284, $10.00
- CD-1086, cable for BC-1306 & GRC-9, $15.00
- CO-278, cord for FT-237 mount, 8 ft, $9.00
- CX-1209, connects RT-unit to CY-590, $10.00
- CX-1210, connects CY-590 to G-8/GRC, $12.00
- CX-1213, interconnect RT-70/AM-65, $9.00
- CX-1359, DC battery cable for GRR-5, $8.00
- CX-1360, multi-cell batt-cable f/GRR-5 $10.
- CX-4655, jumper PRC-25/77 to AM-2060, $10.
- CX-4721/VRC, DC cable, 2.5 ft, $8.00
- SC-C-446149, looks like CX-4722, 10' $7.50
- SC-C-75348, 6 ft adapter w/U-77 & U-78, $9.

38 TO 54 MHZ RECEIVER

R-110 RECEIVER 38 TO 54 MHZ FM CONTINUOUSLY TUNEABLE, VARIABLE SQUELCH AND AUDIO, OUTPUT IMPEDANCE 600 OHMS. 4.3 MHZ. I.F. WITH TUBES 3/1U4, 2/1L4, 1A3, 2/3A5, 1S5, 2/3C4, 2/6AK5 & OB2. VOLTAGES REQ. 135 VDC @ 70 MA. AND 6.3 VDC 2 AMPS.
SIZE: 9x13x7½; WT: 32 LBS. USED $35.95

R-108 RECEIVER, SAME AS R-110 ABOVE EXCEPT 20-28 MHZ. USED $21.95

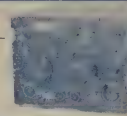
R-109 RECEIVER, SAME AS R-110 ABOVE EXCEPT 27-39 MHZ. USED $27.95

PP-282 POWER SUPPLY 24 VDC FOR R-108-109-110 RECEIVERS. MOUNTS INSIDE REC. USED $5.95

GRC SHOCKMOUNTS

MT-297 SHOCKMOUNT RACK, used in GRC-3 thru -8 systems. Holds one RT-66-67 or -68, one PP-109 or -112, one R-108-109 or -110, and RT-70/AM-65. Includes system interconnect and DC cables but not RT to PP/AM "dogbones." 33.5x4.8x13.5, 70 lbs. Used $20.
MT-299 RACK for one RT-66-67 or -68 and one PP; 35 lbs sh. Used, $15.00; Unused, $25.00
MT-300 RACK for RT-70/AM-65, 24#. Used, $22.
MT-327 RACK for one RT-66-67 or -68, one R-108-109 or -110, one PP-109 or -112; 32 lbs sh. Used, $15.00; Unused, $25.00

RT-68/GRC TRANSCEIVER



RT-68/GRC TRANSCEIVER, 38-54.9 MHz FM continuously tunable or 100 KHz-step channels. Receives and transmits both voice and 1600 Hz ringing FM; range 10-15 miles. Receiver circuit has variable 1st IF 4.45-5.45 MHz and fixed 1.4 MHz 2nd IF; also squelch and 600 ohm audio output. Transmitter uses crystal-controlled oscillator and oscillator power amp; power output 2 watts (LO) or 15 W (HI). Also meter to monitor xmitter filaments and 90 V input. Requires external power supply available separately. With tubes 4/1U4, 2E24, 2/1A3, 2/1L4, 4/1R5, 2/1AE4, 1S5, 4/3Q4, 3A4, 3/3A5, 2/3B4, 6AK5. 9x13x11.3, 42 lbs sh wt.

Used, $55. RT-67 as above but 27.9-38 MHz, used, $39.50; RT-66, 20-27.9 MHz, used $35.

PP-112/GRC 24 VDC SUPPLY for RT-66-67-68 transceivers; provides all votlages from 24 VDC 6.5 amp input. 7.3x9x13, 39 lbs sh. Used, ~~$25.00~~ $18. Gov't reconditioned, $35.00

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PP-109/GRC SUPPLY, as above but 12 VDC 12 amp input. Used, ~~$34.50~~ $24. PP-109, gov't-reconditioned, $40.00
CX-1211 interconnect cable RT:PP units, $7.
MANUAL for AN/VRC-8-9-10, original, $7.50

AN/VRC-10 RADIO SET, consists of RT-68, PP-112, MT-299, CX-1211 cable and manual; 90 lbs. Used $85.
AN/VRC-9, as above but with RT-67, used, $70.
AN/VRC-8, as above but with RT-66, used, $65.

AN/PRC-10 RADIO SET

We sold all of the very popular complete "government-reconditioned" PRC-10 systems but we can still supply reconditioned RT-176/PRC-10's with some good condition "used" accessory kits consisting of CY-5007/744 battery box, AT-271-272-272A antennas, AB-129 antenna base, H-33/PT handset, CW-216 canvas bag, ST-120/M-1956 backpack harness, and manual at a "special package" price. RT-176 operates over 38 to 54.9 MHz FM with 0.9 watt transmitter output continuously tunable. Controls for Volume, Tune, Squelch, Pointer Adjust, and Dial Lock. Tubes 9/5678, 2/5672, 3/5676, 1AD4, and 5A6. Size of RT-176 and battery box: 3x9.5x20, 22 lbs sh.
AN/PRC-10 SYSTEM as described above, $85.00
RT-176 only, gov't-reconditioned, $45.00

\+ +

RT-174/PRC-8 TRANSCEIVER only, same as RT-176 except 20.0 to 27.9 MHz, Used, $35.00

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BA-279 BATTERY f/PRC-8-9-10, 7# unused $7.95

\+ +

AM-598 AMPLIFIER POWER SUPPLY, functions as 24 VDC supply and audio amp for PRC-8-9-10 transceivers which plug into top. Built-in audio cord connects to RT-audio. With tubes OC3, 2/12AT7, 2/26E6, 2625; 11.3x 11.5x10.3, 38 lbs. Used, $28.
CX-2031 BATTERY CABLE for AM-598,

ACCESSORIES

CY-5007/744 BATTERY BOX f/PRC-8-9-10, $6.00
AT-272A-272 RIBBON ANTENNA & FLEX BASE, $8.00
AT-271/PRC 7.5' TELESCOPING ANTENNA used $10
AB-129 RUBBER BASE f/AT-271 (PRC-8-9-10) $3.
AB-591 RUBBER BASE f/AT-271 (PRC-25-77), $4.
H-33/PT HANDSET, used $15. M-29 MIC, $5.00
H-189 HANDSET, used, $15. M-80 MIC, $10.
LS-166 SPEAKER with wall bracket, used, $15.
GRC/VRC CONNECTORS, specify type and equipment used. Used, cut-offs, $3.00 each.
AUDIO PLUGS, metal; used: U-77, $3. U-229 $4.
CX-1211 CABLE, RT-66-67-68 to PP-112, $7.
CX-2031 BATTERY CABLE for AM-598, $8.00
SHOCKMOUNT for AM-598, $5. MANUAL, $4.00

PRC-6 WALKIE-TALKIE

RT-196/PRC-6 FM TRANSCEIVER, single channel crystal-controlled in the 47 to 55.4 Mhz range. Range: approx. 1 mile depending on terrain and conditions. Handheld unit has push-to-talk switch, volume control, ribbon antenna, carrying strap, and provision for H-33/PT handset. Uses type CR-23 crystal (not included or available). With tubes 6/5678, 3B4, 3/5672, 2/5676, and 2G21. Requires 1.5, 45, and 90 VDC. 15x5x4½, 6 lbs sh. Used, $18.95; MANUAL, $7.50
CY-853/PRC-6 CASE, space and padding for 42 crystals; 6½x6½x1, 2 lbs. Used, $3.00

ID-292/PRC-6 CHANNEL ALIGNMENT INDICATOR, plugs into RT-196 and indicates relative level voltages for B+ filament, osc. injection, limiter, discriminator output, and P-A grid. Also P-A current and calibrate adjust. Unit is basic VTVM with 1¾" sq. FS=500 ua-meter and 5678 tube. Power from set under test.
ID-292/PRC, used, $14.95

GRC/PRC BATTERY TEST

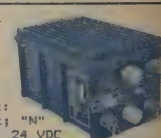
AN/PSM-13 BATTERY TEST SET; DESIGNED TO CHECK GRC AND PRC-TYPE BATTERY PACKS INCLUDING BA-270, -279, -376, -377, -386/PRC-25, -398/PRC-25, -399, AND -505. METER INDICATES BAD-GOOD (FS=1 MA). WITH ADAPTERS U-240, -241, -242, -297, -314, -315, -346 AND CANVAS CASE. SHPG. WT: 7 LBS.
PRICE: USED, EXCELLENT, $24.95

PRC-8-9-10 TEST SET

AN/URM-113 RADIO TEST SET, consists of TS-997 and accessories; designed to align and test modules of backpack transceivers AN/PRC-8-8A-9-9A-10-10A. Modules AM-427-427A, TF-132, or TF-204 from the radio under test simply plug into TS-997 and 3.5" round meter indicates the "quality" of the respective modules. Also checks crystal frequencies 4.26, 4.3, and 4.34 MHz. Operator info incld: 8.6x13x9.7. 23 lbs. Unused, $40.

XMITTER MODULATOR

MD-203/GR MODULATOR, converts a transmitter's CW signals into frequency shift for RTTY transmission. Designed for use with T-195/GRC-19 xmitter, MD-203 is usable with any xmitter with 1.5 to 3 MHz fundamental frequency. Shifts 850 Hz (1.5-3 MHz), 425 Hz (3-6), 212 Hz (6-12), and 106 Hz (12-20). 1 volt min signal input; requires 24-28 VAC 1.8 amp. W/tubes 26A7, 26D6, 5/26A6. 9.3x7.3x13.3, 25 lbs sh. Used, $24.50; power conn, $5 w/set. MANUAL for MD-203, partial repro, $8.50



AM-6669/PRC RF POWER AMPLIFIER, designed for use with PRC-41 backpack transceiver, but usable with other 225-400 MHz xmitters such as PRC-66, ARC-45, etc. Power output: 10 watts from 2-3 W input; "N" connections. Solid-state; 24 VDC required. 5.3x6x9.8, 10 lbs sh. Used, $95.00

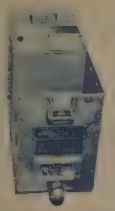
PP-281/GRC 12 VDC POWER SUPPLY, allows 12 VDC power f/R-108-109-110 & RT-70/AM-65; 6#.
PP-281, used, $14.95; unused, $22.95

TECH MANUALS WITH SCHEMATICS FOR:

RT-196/PRC-6...$7.50	
PRC-9A-10A REP $10.00	AM-598........$4.00
RT-66,67 & 68..$5.00	PP-109 & 112...$5.00
RT-70..........$5.00	AM-65.........$5.00
R-108, 109 & 110........	...........$7.50

AN/VRC 13-15 OR AN/VRC 16-18, CONTAIN INFO & SCHEMATICS ON RT-66,67,68, R-108,109,110,PP-109,112. VAR. MTG. CONTROL BOX ES. $7.50

HIGH BAND • FM — TRANSMITTER — RECEIVERS • LOW BAND



R-394/U RECEIVER, 152-172 Mhz FM single channel crystal-controlled. Dual conversion unit has first IF 7.8 Mhz and 455 Khz second IF; also squelch and muting circuits. 8 ohms output impedance. Set features modular construction with plug-in units 1st RF amp, local oscillator, 1st IF amp, 2nd IF and discriminator, and audio/squelch. 455 Khz selective filter is wired in. Also has compartment for modular power supply which is listed elsewhere on this page. Includes tubes 14/5678, 4/1AD4, 5672, 5840, 5783, and 6AK6. 8½x5½x14½ 22 lbs. Used ~~$17~~ $8; Gov't-recond ~~$20~~ $15.

R-257 RECEIVER, same as R-394 except covers 25 to 50 Mhz FM, used, $12.95

T-278/U TRANSMITTER F.M. 152 TO 174 MC APPROX. 30 WATTS, CRYSTAL CONTROL ON ANY TWO (2) PRESET FREQ. PHASE SHIFT MODUALTION 15 KC DEVIATION, CR-27/U CRYSTAL UNIT FREQ. RANGE 4750-5437.5 KC. MULTIPLIED 32 TIMES. WITH TUBES 2/3B4,3/2E24,4/5678,2/5672 AND 2/1AD4.

VOLTAGES REQUIRED AS SHOWN WITH DY-93 DYNAMOTOR ELSEWHERE ON THIS PAGE. USED $14.95
SIZE:8½x4½x14½; WT: 12 LBS. UNUSED $19.95

MX-1547 RECEIVER SUB-ASSEMBLY for R-257 & R-394; relay controls Tx for re-xmit $4.95

VIBRATOR POWER SUPPLIES for R-394 and R-257 receivers; fits inside receivers; 10 lb
PP-867, 24 VDC input, $4.95
PP-868, 12 VDC input, $5.95
PP-846, 115 VAC 60 Hz input, $29.95

DY-93 DYNAMOTOR POWER SUPPLY for use with T-208-278-417 transmitters. Input: 12 VDC 20 amps. Output: 380 VDC 180 ma, 225 VDC 45 ma, -25 VDC 5 ma. 6½x7x14, 29 lbs. Used $9.95

AN/VRC-19 RADIO SET, 6 VDC input system consists of R-394 receiver, T-278 transmitter, DY-100 dynamotor-power supply, C-847 speaker-control, CY-938 cabinet, MT-1236 mount, H-33 handset, and manual. 17.5x11.3x25, 110 lbs sh (UPS in 2 pkgs). Used, $55.00; Gov't-reconditioned, $79.50

#12V/VRC-19 SET, 12 VDC input version of VRC-19; DY-93 in place of DY-100, add $6.

URC-68 DISTRESS RADIO

AN/URC-68 DISTRESS TRANSCEIVER, handheld unit designed as an emergency radio for aircraft pilots; operates over 38-42 Mhz FM and 230-250 Mhz using 4 preset channels, voice, MCW, and beacon. All have 40.5 Mhz FM and 243 Mhz UHF channels; other three frequencies depend on selected crystals (not available), 50 Khz spacing. Power output 500 MW (FM), 200 MW (UHF); range 19 miles line of site or 3-5 miles over varied terrain. Includes squelch, built-in microphone, speaker, and antenna. Requires 11-16 VDC originally supplies by BA-1112 battery (not available). 6x3½x1½, 3 lbs sh. Used-reparable with receiver and transmitter output, $79.50
AS-IS, no output but good modules, $59.50
MANUAL, partial reproduction, $10.00

CV-278 FREQUENCY SHIFT CONVERTER for RTTY use with R-392 receiver and T-195 xmitter; use with any Receiver having 450-500 KHz IF. Requires 28 VDC 2 A. Has Discriminator meter but less 0-50 ua Signal Input meter. 9.3x7.3x13.8, 25#. Used, $30. Power plug, $6.

GE 'PROGRESS-LINE'

GE PROGRESS-LINE 50 WATT MOBILE TRANSCEIVER, single channel crystal-controlled in the 144-174 FM Mhz band Has #4ER25G2 receive, #4ET-21A2 transmit, and #4EP2B vibrator power supply sections. Transmit deck uses two 6146 tubes in P-A. Power supply requires two vibrators (not available) for 12 VDC operation. Internal trimmers for antenna tuning, coupling, and P-A plate; 21 tubes. 6½x14½x15¾, 34 lbs sh. #MA E/36N, used less xtal & cover, ~~$45~~ $30.
S318-CCT CONTROL PLUG, $3. POWER PLUG, $2.50

MODULES from R-394 152-174 MHz receiver; possiblities for the RF experimenter. W/ schematic; 2.6x2.1x7.3, 2#:
LOCAL OSCILLATOR, tubes 5678, 5783, 2/1AD4, & xtal oven (no xtal) $4.95
AUDIO & SQUELCH w/tubes 3/5678, 5672, 6AK6 and 10K:8 ohm AF transformer, $5.95
152-172 MC RF AMP, 5840 & 2/1AD4; $2.95
1st IF 7.8 MC, tubes 3/5678 & xtal, $3.95
455 KHz SELECTIVE FILTER, 2.5x2x5.5, $2.95

MOTOROLA TRANSCEIVER

MOTOROLA FM MOBILE TRANSCEIVER, transmits in 144-174 Mhz range, receives between 450-470 Mhz. #TD6050AB transmitter section has output of 25 watts min. (144-167 Mhz), 20 W min. (167-174 Mhz) using single crystal-controlled channel. Crystal multiplication 24 times; 50 ohm output impedance. Has nine tubes including 6146 in power amp. #XRE1000-AH receiver has dual squelch "Private Line" or separate tone-controlled and carrier squelch circuits. Two crystal-controlled channels; 455 Khz final I.F. Audio output 2 watts into 3.2 ohms. With 14 tubes. #XPN-6003B transistorized power supply requires 12 VDC input to supply voltages for transmitter and receiver. Crystals and accessories not available. 6x10x19½, 28 lbs. Used less 6146 tube ~~$17.50~~ $12.50; Schematic set, $5.

BA-279 BATTERY PACK

BA-279/U BATTERY, intended to power AN/PRC-8-9-10 or Canadian PRC-509-510 backpack transceivers. However, pack can be readily dissassembled to utilize the different cell voltages for other power uses. Cell outputs: +1.5 V 675 ma (A1), -1.5 V 250 ma (A2), +67 V 25 ma (B1) +135 V 50 ma (B2), and -6 V 400 ma (C). Batteries have 2/79 dates and have been in cold storage thru 3/84; not rechargeable. 8½x8½x2½ 7 lbs sh. Unused, $7.95 each; Case of 12, $72

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BA-4386 LONG-LIFE MAGNESIUM BATTERY for backpack radios AN/PRC-25-77; output (as supplied to PRC-25-77): 12.5 VDC 600 ma (receive), 12.5 VDC 1.4 amp and 3 VDC 400 ma (transmit) Estimated battery life: 30 hours 9:1 R/T ratio. 4/80 date code; cold storage thru 3/84. 3½x9½x2, 3 lbs. Unused, $5.95; 8/$36.

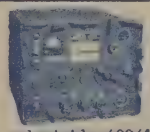
PRC-25 AC SUPPLY

C-7673/PCC-1 RECTIFIER CONTROL UNIT, intended for use with two RT-505/PRC-25 transceivers and TH-81 terminal as controller for telegraph-telephone repeater system. Also functions as 115 VAC 60 Hz or 24 VDC supply for two RT-505's. Control one or both RT-unit, power DRY BAT-SB451-OFF-VEH-115 VAC, handset connection, cables, two 3 A fuses for AC and two 5 A for DC. 2.1x9.7x6.6, 10 lbs. UNUSED, $100.00
Used, $75.00; Used "AS-IS not working", $40.

0.5-32 MHZ RECEIVER

R-392/URR RECEIVER, 0.5 to 32 Mhz AM-CW in 32 one Mhz bands using mechanical digital tuning. Triple conversion on lower 8 bands, double on others. Selective bandwidth 2-4-8 Khz; 100 Khz crystal calibrator points. With 25 tubes of 26A7, 26A6, 26C6, 26D6, 6AJ5, 12AU7. Requires 24-28 VDC 5 amps. Rugged vehicular version of the famous R-390 receiver. 11½x14½x11; 58 lb sh wt. Used-reparable, $165. Checked, $235.
MANUAL for R-392, partial repro, $15.00
LS-166 SPEAKER for R-392, used, $12. w/set.
115 VAC POWER SUPPLY f/R392-no connector $25.

54 TO 70.9 MHZ



R-125/GRC-10 RECEIVER, 54 to 70.9 MHz FM in 100 KHz steps. Variable IF 15.15-16.05 MHz; final 4.3 MHz. With signal level meter, AFC, squelch, selectable 600/4 ohm audio out, U-77 type audio connection and 23 tubes. Requires 200 VDC 100 ma and 24-28 V AC or DC 1.3 amp. 9.3x11.3x13.3; 29 lbs sh. Used, $45.00
CONNECTORS f/R-125, power or control, $3 ea.
MANUAL for GRC-10 (R-125/T-235/DY-94), $8.50

CY-590/GRC

CY-590 BATTERY BOX, usable either as battery box for receiver section of RT-66-67-68 or connects transmit voltages of G-8 generator to RT-66-67-68. Requires five 1.5 VDC BA-403 and one 90 V BA-419 batteries (not available). 14- and 9-pin cable connections. 5.8x8x13, 9 lbs sh. Used, $15.00.

* *

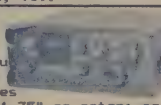
G-8/GRC GENERATOR w/legs & seat; 32 lbs $35.

WW-2 INTERPHONE KIT

RC-298 ARMORED TANK INTERPHONE EXTENSION KIT, used with BC-605 interphone in conjunction with BC-603/604 & BC-683/684 radio sets in WW-II tanks. Includes BC-1362 steel explosion-proof phone box with H-22 handset, BC-1361 remote call box, 30' 7-cond cable, rubber tape, 125 pcs hardware kit, manual, and other items. 85 lbs sh; 2 pkgs UPS or in original wood crate motor freight collect. Unused, $25.00

C-375/VRC CONTROL

C-375/VRC CONTROL BOX, used with GRC-3--8 series equipment as a remote junction and switching box. Controls audio lines of two transceivers, one receiver, and one interphone amp. Has two each U-77 connections, volume controls, mic & phone jacks. 7x7x4, 5 lbs. Used, $10.



C-435/GRC CONTROL, plugs into MT-297 mount and allows duplex use and retransmission of GRC-3 thru -8; functions as junction for control and audio lines of Rx-Tx and aux-Rx. Has 1.75" sq meter; no generator. 3.5x8.8x7.3, 7 lbs sh. Used, $15.

PRT-4 XMITTER

AN/PRT-4 MINIATURE TRANSMITTER, designed to operate on two preset channels between 47 and 57 Mhz. Output 450 mw (Ch 1), 50-250 mw (Ch 2); also 150 Hz tone. Has built-in speaker and clips onto belt or pocket. Requires 12 VDC originally supplied by BA-399 battery (not available). Units sold "as-is" less antenna crystals, battery box. 2x4½x2, 2 lbs. $16.95

VERY HIGH VOLTAGE

DC POWER SUPPLY WITH 107-125 VAC 60 Hz PRIMARY. TWO OUTPUTS: -5.4 TO 5.75 Kv. @ 140 TO 300 u-A. ONE OUTPUT: -5.1 TO 5.3 Kv. @ 100 TO 270 u-A. SIZE: 12⅜x2⅜x4¼ WT: 10 LBS. GE#9T63Y2029G6, USED, $10.95

HIGH VOLTAGE SUPPLIES

HIGH VOLTAGE DC - DC CONVERTERS originally a CRT HV supply module; use in HV experiments or in bug zappers. #ULC-14-07C, input 5-15 VDC 100; output 4.5 to 13.5 KV. Also 135-402 V and 70-93 VDC. Potted; PTK mfg. 3.2x4.2x1.4, 3#, NEW $9.95

#B2-10841-01, input 10-20 VDC 100-300 ma produces output of 10-20 KVDC; aux outputs of 64-135 V and 35-39 V. Greater current output than above supply; components accessible-not potted. 5.3x5.3x1.8, 2#; NEW $12.95

TRYGON DC SUPPLIES

DC SUPPLIES for the military; inputs 105-125 VAC 48-62 Hz. Outputs regulated 0.01%. W/2.5" dia volt- and ammeters; 6.5x19x15:

#PP-4464 (Trygon M15/15A), output 15 VDC+/-3v 0-15 amp; 70 lbs sh. Used, $125.00

#PP-4465 (Trygon M15/30A), output 15 VDC+/-3v 0-30 amp; 100 lbs sh. Used, $145.00

#PP-4466 (Trygon M4.5/30A) output 4.5 VDC+/-1v 0-30 amp; 65 lbs sh. Used, $65.00

COMPUTER SUPPLY

COMPUTER POWER SUPPLY with popular outputs 28 VDC 9.6 amps and regulated 5 VDC 5 A, 12 VDC 5A, -12 V 2 A, -6.8 V 0.8 A. Operates from 100-125 VAC 60 Hz. Supply has many useful components such as transformer rated 39.8 VCT 8.5 A and 22.7 V 12 A, front panel w/(4) 10x2-7/8x1¼ heatsinks and six 2N3055 transistors, (2) KB25005 bridge rectifiers, capacitors (3) 51000 mf and one 19000 mf 40 VDC, regulator PC card, other parts. Made in Canada for NCR. 10½x14x12, 65 lbs sh. #M32-01-775, $29.95; 2/$50.

SOLID STATE POWER SUPPLIES rated conservatively and constructed on rugged steel frames. Units have front voltage adjust ±10% running light, AC reset. Also adjustable current limiting and overvoltage protection. Power input: 115 VAC 60 Hz. Removed from equipment.

Add $10.00 to prices for "checked" units.

RATING	SIZE	Sh Wt	No.	PRICE
4 V 30 A	13.5x7x15.5	65#	926	~~$30~~. $24
20-24 V 5.5 A	9.5x7x20	47#	332	~~$40~~. $32
30 V 3 A	15.5x7x19.5	38#	889	~~$27~~. $21

DUAL POWER SUPPLY, same style as above. -32-36 V 14.7 A and -32-36 V 10.3 A; two independent regulators w/common buss. 20x12x14. 125 lbs sh. #450, ~~$60~~ $45

HFE CRT POWER SUPPLY; HAS 6.5 KV LOW CURRENT OUTPUT WHEN USED WITH 10 VDC 1.75 AMPS DC-TO-DC INPUT CONVERTER. WILL PRODUCE 7.5 KV FROM 12 VDC INPUT. OTHER LOW CURRENT OUTPUTS OF -2500 AND -1500 VDC. TRANSISTORIZED WITH COVER AND CONNECTORS. 11x6x5½, 10 LBS. USED, EXC., $15.95

HFE LOW VOLTAGE POWER SUPPLY; OUTPUT: 10 VDC 1.75 AMPS, ADJUSTABLE -1 V. INPUT: 115 VAC 60 Hz. TRANSISTORIZED WITH FUSE AND CONNECTOR. 10½x6½x4; 12 LBS. REMOVED F/EQUIP., $7.95

HFE CRT AND LV POWER SUPPLIES AS SET, $20.00

COMPUTER SUPPLIES

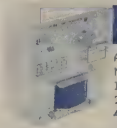
COMPUTER POWER SUPPLY, outputs +5 VDC 15 amps and ±12 V 1 A from 115 VAC 60 Hz input. Uses IC regulator to drive 2N3055; also LED status indicators, 4½" axial fan, and cover. 6x6½x19 30 lbs. #MA-2149, used $19.95

#FD-2266 DISK DRIVE SUPPLY as above but +5 V 5 A, +24 V 5 A, -5 V 1 A; Wilton mfg. $24.95

DC REGULATOR BOARD

POWER SUPPLY REGULATOR BOARD for supplies +8/-8 regulated 3 amp and upto 24vdc unregulated. W/capacitors 2/15000 mfd 15 V, 33000 mfd 30 vdc, 2/KBPC bridge rectifiers, two 2N6576, 2/2N4441 SCR. Regulators fixed encapsulated circuit boards and replaceable. 7.75x6x4; 3 lbs sh. #MEND-REG-5V, NEW, $6.50

MODULAR SUPPLIES



AC DC #ECV5N6-1 5 VDC 6 AMP MODULAR SUPPLY, +0.05 line and load regulation from 100/117/220/23/240 VAC 47-440 Hz input: 4.9x5.6x2.5, 5 lbs. NEW $17.95

ACME ELECTRIC 15 VDC 6.5 AMP SUPPLY, voltage adjust +0.75 V; +0.1% line and load regulation from 115/220/230 VAC 47-440 Hz input. Also remote sensing and adjustable OLP. 9x4.9x3, 8 lbs. #APH15-6.5, NEW $22.95

SUN SUPPLIES

OPEN FRAME SUPPLIES which can be used as-is or taken apart for excellent parts values; 115 VAC 60 Hz input, 32 lbs sh. All unused:

#PS-3REG SUN SUPPLY, features two modular regulators 12 VDC 4 amp and one 5 VDC 8 amps max. Unregulated DC outputs 15 V 15 A and 15 V 2 A. AC outputs 50 VCT 2 A, 54 V 2 A, 30 V 1.2 A, and 6.3 V 2 A. Nice 10x12x3.5 chassis; o/a 10"H. Unused, $24.95

#PS-1415-NR SUN SUPPLY, unregulated DC outputs 14 V 15 amp, +22 V 4 A, -22 V 4 A; AC outputs 19.3 V 1 A, 30 V 1 A. Includes 5.5x4.8x2.6 and 1.5x4.8x1.3 heatsinks w/200 V 25 A rect-bridges and capacitors; no regulator modules, 20 lbs sh. Unused, $14.95

10/4.5 VDC 15/3.5 AMP

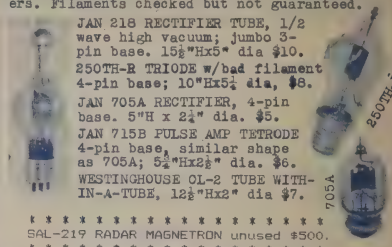
DC POWER SUPPLY provides 10 VDC 15 amp and 4.5 VDC 3.5 A outputs from 100 to 127 VAC 60 Hz input. Wire output in series for 14.5 VDC at 3.5 A. 7x12X4.5, 17 lbs. #PX-2939, $14.95

CASH REGISTER POWER SUPPLY has outputs +6, +10, +15, -24 VDC from 115 VAC in. Also 6 V gel-cel battery, 6x4.8x1.5 heatsink with 4/TO-3 transistors, and regulator board. 8x8.5x7.3, 22 lbs sh. Origin #202550A unused AS-IS ~~$25~~ $14

120 V 20 KHZ SUPPLY

LAMP POWER SUPPLY, an item for the experimenter who finds the 120 VAC 20000 Hz current from 120 VAC 60 Hz input intriguing or finds the supply a good source of usable parts. Consists of two 6x4x1 heatsinks each w/2N3055, transformer w/2-4 VCT 500 ma outputs, ferrite core autotransformers, PC board. 4.8x2.5x3.5, 9 lbs. GE#9T69Y1500-G4, $6.95

UNUSUAL TUBES for collectors and experimenters. Filaments checked but not guaranteed.



JAN 218 RECTIFIER TUBE, 1/2 wave high vacuum; jumbo 3-pin base. 15⅝"Hx5" dia $10.

250TH-R TRIODE w/bad filament 4-pin base; 10"Hx5¼ dia, $8.

JAN 705A RECTIFIER, 4-pin base. 5"H x 2¼" dia. $5.

JAN 715B PULSE AMP TETRODE 4-pin base, similar shape as 705A; 5⅝"Hx2⅛" dia. $6.

WESTINGHOUSE OL-2 TUBE WITH-IN-A-TUBE, 12⅛"Hx2" dia $7.

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SAL-219 RADAR MAGNETRON unused $500.

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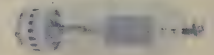
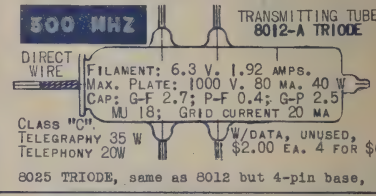


EIMAC 2-450A high vacuum HV rectifier, 30 KV peak 7.5 V 25 A fil; 7 lbs. "As-Is" not guaranteed, $17.50: or guaranteed, $125.

R4330 PHOTOFLASH TUBE

Operates at 2250 volts, 6 flashes per minute 100 watt-sec/flash maximum. 12,000,000 lumen peak light output; integrated light output 3500 lumen sec flash. Sylvania, NEW, $10.00

500 MHZ

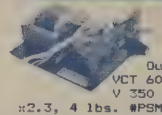


8025 TRIODE, same as 8012 but 4-pin base, $3.

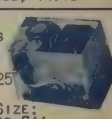
COLECO DRIVE SUPPLY

COLECO DISK DRIVE POWER SUPPLY for ADAM system; transformer type with outputs +5 V 3 amp, +12 V 2.9 A, -5 V 200 ma, and +18 V inductive 1 A. 115 V 60 Hz input. With cords and On-Off switch. 11x4x8, 10 lbs sh. #COL72559, unused, $12.95

CIRCUIT SUPPLY MODULE



POWER SUPPLY MODULE with 3-conductor cord, fuse, 100/115 V input switch, and 50% Voltage switch. Outputs: 18 V 350 ma and 30 VCT 600 ma. 50% switch results 9 V 350 ma and 15 VCT 600 ma. 6x4 x2.3, 4 lbs. #PSM-4404-87AD, used, $4.95

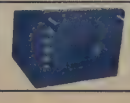


MICROCOMPUTER POWER SUPPLY, USES TWO 3-TERMINAL REGULATORS AND A 723 WITH TIP3055 TRANSISTOR. INPUT: 115 VAC 60 Hz; OUTPUT: -25 VDC 180 MA; -5 VDC 800 MA, -15 VDC 1.25 AMPS. WITH SCHEMATIC. SIZE: 3⅜x5⅜x4; SHPG. WT: 10 LBS. #ECRPS-744, $8.00

24 VDC 6 AMP SUPPLY

24 VDC 6 AMP POWER SUPPLY originally used in Xerox equipment but usable to power R-392 receiver and other equipment. Requires 105-125 VAC 60 Hz input. 4x9½x8½, 20 lbs. #AS-59134, used-checked, $24.95

PRINTER POWER SUPPLY Has AC outputs 2/24, 6, 18, 42-14-0-14-42 V from 115 VAC 60 Hz input. DC rectification required for proper voltages. Also has line filter for external fan, relay for cover interlock, and two fuses. 11x6x4, 18 lbs sh wt. #803-101, ~~$14.95~~ $9



230 VDC TRANSISTORIZED POWER SUPPLY, 115 VAC 60 Hz input. Units marked "200 VDC" but they test at 240 VDC 300 ma. 5x4x5, 15 lbs. #3930, NEW, $28

CATHODE RAY

CRT'S, pull-outs or unused.

2BP1	20.00	5AP1	$10.00
902	17.50	5ABP1	30.00
3ACP7	15.00	5BP1	7.50
3ADP1	25.00	5BP1A	20.00
3BP1	17.50	5BHP2	45.00
3CP1S1	3.00	5CP1	7.50
3DP1	6.00	5BDP7	28.00
3E33P7	20.00	5CLP11	35.00
3FP7	6.00	5FP7	12.00
3RP1	20.00	5FP14	15.00
3HP7	3.00	5GP1	15.00
3JP1	12.00	5JP1	12.00
3JP12	12.00	5HP1	15.00
3RP1A	30.00	5UP1	30.00
K135P7	25.00	7EP7	18.00
4GP31	40.00	7CP7	15.00
5AMP2	40.00	12FP7	5.00

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5DEP31 FLAT-FACED CRT, used in Heath scopes; replaces 5UP1 with simple socket wiring change. NEW ~~$35~~ $17. SOCKET for 5DEP31, $2.50

CRT's for TEKTRONIX SCOPES used-checked, no burns:

#T51P2/5BGP2 f/531-535,	$45
T54P2/5BHP2 f/541-545,	$45
154-0183 f/545A, NEW,	$65
154-0221 f/555, NEW,	$75
T5810 for 581, 585,	$65

Others available. WRITE!

SPECIAL TUBES

Checked $2.00
Unused, $3.00

5651	6005
5687	6099
5751	2050
6004	5654
5814	5749
6096	5750
5672SL	5763
5676SL	6201
5678SL	6112
5840SL	

INDUSTRIAL

3B28	un $12
6L6GC	Un $4.
26Z5	U $6.
6032	Un $25.
6080	U $4.
6082	Un $7.

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NUVISTORS

6CW4 used	$6
7586 u	$10
7587 u	$16

U=USED, CHECKED; UN=UNUSED.

2E22	U	$4.50	866	U	$4.50
2C43	U	$12.			
2C46	U	10.	954/955/956		
2K25	U	18.	958/		
3C22	Un	10.	1616/1619		
726B	U	18.	1624/1626		
4J31	Un	28.	Used		$1.50
5J33	Un	25.	Unused		$2.50
5933/807W	u	$5			
838	Un	$15.	1625	U	$2.50
6159	U	$4.		Un	4.50
100TH	U	27.	1629	U	2.50
807	U	3.	865	Un	$7.50
814	Un	8.	6L6M	U	5.00
829B	U	10.	6BQ5	U	2.00
832A	U	8.		Un	3.00
837	U	$3.00	717A	Un	7.50
12BY7	Un	3.50	6DC6	Un	4.00

6146B/8298 NEW mfg, $9.95

STANDARD TYPES

USED, $1.50; UNUSED $3.00

0A2 0B2 0B3 0C3 0D3 0Z4
1A3 1A4 1A5 1A6 1A7 1B3 1B4
1B5 1C5 1C6 1D5 1E7 1F3
1G6 1H6 1J3 1J6 1K3 1L4 1N5
1N6 1P5 1R4 1R5 1S2 1S4 1S5
1T4 1U4 1X2 1V2 1LA4 1LA6
1LC5 1LC6 1LH4 1LN5

USED, $1.50; UNUSED, $3.00
3A4 3A5 3B4 3Q4 3S4

2X2 used, $1.50; unused $3
2E24 checked $3. Unused $5.
2E26 " $3. " $5.

USED $2.00; UNUSED $3.50
5A6 5R4 5T4 5T8 5U4 5U8 5V3
5V4 5W4 5Y3 5X4 5Z3 5Z4

USED, $1.50; UNUSED, $3.00
GLASS GT-types only

6AB4 6AB7 6AH6 6AC7 6AF3
6AF4 6AF5 6AF9 6AF11 6AG5
6AH4 6AK5 6AK6 6AL5
6AQ5 6AQ7 6AN5 6AR6
6AS5 6AS6 6AS7 6AT6 6AU4
6AU5 6AU6 6AU7 6AY3 6AW8
6AV5 6AV6 6AX4 6AX5
6BA11 6BC5 6BC8 6BE3
6BH6 6BJ3 6BK4 6BK5
6BK7 6BL7 6BN4 6BN6 6BQ7
6BQ6 6BX7 6BU8 6BZ6 6BZ7
6CB5 6CB6 6CF6 6CG3 6CG8
6CG7 6CG8 6CM7 6CS6
6CS7 6CU5 6CU8 6CY5 6CY7
6CX8 6DA4 6DE6 6DK6 6DK7
6DQ6 6EA8 6DQ6 6DN6 6DN7
6EA4 6EA7 6EH4 6EJ7
6EM5 6EM7 6ES5
6FQ7 6FY7 6FV5 6FM7 6GF7
6GH8 6GK5 6GJ7 6GW6 6GM6
6HB7 6JH6
6JT8 6JU8 6KA8 6KD8
6KZ8 6LM8 6SQ7 6LU8 6SA7
6SG7 6SD7 6SF5 6SH7 6SJ7
6SK7 6SL7 6SN7 6SR7 6ST7
6SU7 6ZY5 6CA7 NEW $4.

IF YOU DON'T SEE WHAT YOU NEED LISTED, PLEASE WRITE.

Many other tubes in stock. No complete list available. WRITE us your needs. WE WILL SHIP "USED-CHECKED" TUBES IF "UNUSED" SOLD OUT, UNLESS YOU SPECIFY "UNUSED ONLY"

USED, $1.75; UNUSED, $3.50
GLASS G/GT types only

6A6 6A8 6B6 6B8 6C4 6C5
6C6 6F5 6F8 6G6 6H6
6K4 6K6 6K7 6K8 6J4 6J5
6J6 6J7 6J8 6L4 6L5 6L7
6N4 6N7 6R7 6T8 6T7 6T4
6U6 6S8 6U8 6V6 6V8 6V7
6V3 6W4 6W6 6Y6 6Z7 6X5
6X4 6X8 6Z4

USED, CHKD., $2. UNUSED, $3

7A4 7A5 7A6 7A7 7A8 7B5
7B6 7B7 7B8 7C4 7C5 7C7
7E7 7K7 7L7 7T7 7X7
7V7 7W7 7Q7 7S7 7Y4
7Z4 7AD7 7AU7 7AH7 7AG7
14A5 14A7 14B6 14C5 14C7
14E6 14F6 14F7 14N7 14R7
14S7 14W7 28D7

USED, $1.50; UNUSED $3.00
ADD 25¢ EA. FOR METAL TYPE.

12A5 12A6 12A8 12C8 12B4
12D4 12H6 12J5 12J7 12K7
12K8 12L6 12Q7 12W6 12X3
12Z3 12AC6 12AF6 12AH7
12AL7 12AU7 12AX4 12AX7
12AZ7 12BA6 12BA7 12BE6
12BH7 12BF6 12CA5
12DQ6 12SF5 12SG7 12SH7
12SJ7 12SK7 12SL7 12SN7
12SR7 12AT7 12AU6 12AV7

USED-CHECKED $2. UNUSED $3.

8BQ7 8B10 9KZ8 10EG7 10DE7
15KY8 17D4 17BF11 17AX4
17GW6 17DQ6 19AU4 19T8
21JV6 21GY5 22JM6 27GB5
25L6 25W4 25DN6 25BQ6 25Z5
25Z6 32L7 35B5 35C5 35L6
35A5 35Z3 35Z4 45Z5 35Y4
50A5 50C5 50C6 50L6 50X6
50HK6 70L7 117Z4 117Z6

USED-CHECKED, $3 ea: 26A6, 26A7 26D6 26E6 26C6
-USED-CHKD $2.50; UNUSED $4
9001 9002 9003 9004 9006

OLD TUBES as available
USED, $2.50; UNUSED $4.00

19	24	27	30	31	32
33	34	35		36	37
38	39/44		41	46	
52	55		57	58	76
77	78	79	81	85	89/Y

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USED-CHKD $3. UNUSED $5.00:
26 47 75 80
71A UNUSED-BOXED, $5.50
201A/301A used-checked $12.

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ANTIQUE GLOBE TUBES, used-checked, $7.50 ea: 224/324
226/326 227/327

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"EYE" TUBES, used-checked:
6U5, 6E5, or 6AL7, $7 each

METAL TUBES.
Used-checked $2. Unused $4.

6A8 6B8 6C5 6C8 6F5
6F6 6F7 6F8 6H6 6J5
6J7 6K7 6K8 6L7 6N7
6R7 6V6 6SA7 6SD7 6SF5
6SG7 6SJ7 6SK7 6SR7 6SS7

POWER AMP TUBES, used-chkd unless otherwise noted; (stt)=subject-to-your-test.

+ + + + + + + + + + + + + +

2C39A, 6 V fil.,	$6.00
3CX100A5, 6 V fil.,	$7.50
2C39A/3CX100A5 unused,	$18.
4X150A 6 V fil.,	$18.00
4X150D 26 V fil.,	$10.00
4X150G, coaxial (stt),	$22.
4X250F, 26 V fil.,	$12.50
4-125A/4D21, (stt)	$28 $22
4E27/5-125B, (stt),	$24.00
4E27/5-125B, unused,	$30.00
5894 or similar, (sst)	$22.

CRT TUBE SHIELDS & SOCKETS:

CRT #	SHIELD	SOCKET
3BP1	$4.00	$2.50
3RP1	4.00	2.50
5BP1		2.50
5CP1	5.00	3.00

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City State Zip

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Please allow for shipping charges. Items over 70 lbs. shipped via truck-freight collect. Consult your local motor freight office.

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- ☐ FREIGHT
- ☐ AIR
- ☐ BEST WAY
- ☐ UPS

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Cash		
Check		
Credit Memo		

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NUMBERS ON CREDIT CARD

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STATE TAX (Ohio)			
For Postage and Insurance			
Due from Previous Order			
TOTAL			

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RELAYS

DELTROL 105ML MAGNETIC LATCHING RELAY, one SPST norm open; other SPST norm clsd. Actuates 15 VDC min. Octal base. 2x3¼x2, removed $3.95

SPDT & SPST octal 28 VDC 1 A contacts; 0.9 ma pickup, 0.1 ma dropout. #GH-2925 $3.

4PDT 48 VDC 3700 ohm coil; 1-5/8x2. MHX4069 used $1.

2PDT 26 VDC 675 ohm coil, 2 amp; sealed, solder hooks. 3/8x1x¾, #30-010 used $2.00

2PDT 26 VDC 830 ohm coil, 2 amp; sealed, solder hooks. 3/8x1¼x3/8, #J26L4H6A $2.50

OMRON 3PDT RELAY w/24 VDC 650 ohm coil; 2 A contacts. 11-pin solder/plug-in lugs. 1x1⅜x¾; #OM-MY3 unused $2.

Sealed SENSITIVE RELAY, 50 ohm 28 ma coil; DPDT contacts. Solder hooks; 1x1x2¼. #R400-2B-50, $2.95

90 V 60 Hz 3PDT octal KA4187 $2.

DPDT 115 V 60 Hz 5 A contacts; octal. KR5737 $2.50

4PDT 120 VAC, 3 AMP CONTACTS; 28 VDC 3 A RES. PLUG-IN SOLDER. ¾x1x1¼, #KH4695, $1.50

MIDTEX DPDT 20 AMP 120/240 VAC or 10 A 480/600 VAC; plastic case w/mount tabs. #187-321200, NEW, $3.50

ALARM PC BOARDS w/soldered relays, 3-LED's, transisters, etc; 4½x1⅛x6 #556015, 2-Sigma 70RE22ST-1000 DPDT 12 VDC relays w/2 A 28 VDC/115 VAC contacts; $3.25 #556168, 2-P&B R10S-E2-Z4-J500 sensitive relays, 500 ohm 9 ma coil; 4PDT 2 amp contacts, $3.75 #556-01R, one P&B R10-E49-04-3 4PDT relay, 12 VDC 1000 ohm coil, 2 A; also Klixon 2 A cir-breaker, $3

12 VDC 4PDT relay similar to P&B KHU-Series. 115 VAC 3 amp contacts; solder or socket-type mount. #4CH12D, NEW, $2.95

MINITURE PLUG-IN, 28VDC,60C OHM,DPDT 2 AMP,FILTORS 10EC 6555-1;#5945-987-8401 $3.0C

MAGNACRAFT SPDT, 12 VDC 10 amp contacts, 100 ohms. Open frame; 1⅞x1¼x1. #88X-150A NEW $2.50 ea.

SENSTIVE RELAY, 6 VDC, ONE POLE MAKE AND BREAK. 600 OHMS. 2⅜x2¼x1⅞. #ZA/CAN1304 PRICE: $1.00

SENSITIVE, SPDT 6-12 VDC 1500 ohms, contact adjust. 2¾x2½x2¼; #RM39-1901, $1.00

SENSITIVE RELAY, 300 ohm coil res; operates @ 2.05 VDC. #K111601-1, $2.00

PETER PAUL VALVE w/120 V 60 Hz 9 watt coil; 1/8" orifice, 11½"L hose. SER-GH 90 psi; 2 lbs. #PP-32NfDGW, unused, $4.95

POLAR RELAY, Type 255A, various manufacturers; black or grey case. 2¾x5½x2¾, 3 lbs. #D163119A NEW $3.25

14 VDC CONTACTOR used as starting relay on 14 VDC 40 amp input motor. 2.8x3.8 x2.5, 2 lbs sh. #CR2800-384 $4

SWITCH-GENERATOR CONTROL RELAY, differential type rated 24 VDC 300 amps; 4x4x3, 4 lbs. GE#3GTR72E4, unused, $10.

12 VDC REED RELAY CIRCUIT BOARD with 3/DPST, 4/SPST, one mercury wetted SPDT reed relays plus xsistors, diodes; 3 lbs. #5361, $2.50

OPEN FRAME 4PST, 24 VDC 67 ohm coil; approx. 10 A N.C. contacts. 3.1x1.4x3.1; Leach #2024-188, new, $3.50

P&B PR-80164 OPEN FRAME, SPST n.o. 12 VDC; contacts 120 VAC 5 A. 2½x 2½x2¼, unused, $2.50

ROTARY RELAY 28 VDC 4-wafer horiz-shaft; 1/2-break, 2/1-make 1-break, 1/3-make 2-break. 3-1/8x2x2 #K101/6 $3

ROTARY RELAY, 28 VDC; single wafer, no unused contacts. Shaft has 2" arm. 2x 1.9 dia. #8002-32, $3.00

ROTARY, 28 VDC two wafers vert-shaft; 1-make 1-break, 3-make. "AS-IS" only, one wafer cracked or broken; switching not affected. 2.5x2x1.8, #K102-WB, $2.25

STRUTHERS-DUNN CONTACTOR, 12 VDC coil 24 VDC 50 A contacts. 3.3x 3.3x2.8, 2# sh #KS5722L $4.50

DPDT CERAMIC RELAY, open frame; 115 VAC coil, 10 amp 115 VAC contacts. 3.6x2.4 x1.6, 2#. #RY3/610 used $20

115 VAC 60 Hz COIL 25 amp @ 28 VDC/ 115 VAC contacts; solder terminals. 1⅝x3x1¾; Kurmelec #26S20/2054 used $4.

GE#3SBW1001A2 SPDT 9.6-15.8 VDC relay 200 ohm coil; used in GE mobile transceivers. F/solder or socket connections. 1x1 x⅞. New, $1.50. 24/$25.00

ROTARY RELAY 28 VDC, operates at 15 V; holds at 5 V. 2¼x 1-3/8x2, 2 lb. #5533/HK22, removed, $2.

SPST 24 VDC OPEN FRAME, 25 amp contacts; 3-1/8x1-3/8 x1⅞. #B-2A-OPF unused $1.75

P&B #AKC7DY DPST n.o. 24 VDC coil; contacts 120/240 VAC 10/5 A. Metal cover w/bracket & term-lugs. 1.5x3 x2.3; 1#. NEW, $2.95

P&B DPDT OPEN FRAME 12 VDC coil; 120 VAC 10 A contacts 1.8x1.1x1; #KA11DG-12 $2.50

GUARDIAN DPDT 115 VAC ¼ HP 10 A; solder terminals, plastic case. 1⅝x1⅝x1¼. #A410-361342, NEW, $2.50

POWERFUL 12 VDC SOLENOID, ¾" [redacted] max draw approx [redacted] -very strong. Coil res approx 0.75 ohm; we recommend a capacitor discharge-type DC supply for this. Requires 1" threaded dia nut for mount. 4x1½ dia; 2 lbs sh. #12V-SOLWIND unused $3.

ROWAN CONTACTORS COIL 110V 50/60HZ FULL LOAD RUNNING CURRENT 10 AMP. LOCKED ROTOR CURRENT 60 AMP. 600 V. MAX.

532934 3 POLE USED $4.95
532935 4 POLE USED $5.95

CATALOG STOCK NO.	Page No.	Quantity	DESCRIPTION	Price Each	Total Price Add This Column	Do Not Use

LEDEX

LEDEX HEAVY DUTY SOLENOID #S-8210-025, 8-position 45° stroke, 28 VDC Starting torque: 5 lb-in @ 35 watts (15 lb-in holding) continuous duty. Upto 32.8 lb-in starting torq. @ 700 watts 1/20 duty. 7S size: 2¾" dia x 1-7/8" with ⅜"x3/8" dia. shaft. 4 lbs. Unused, $4.95

OPEN FRAME, SPDT 5.5-7.5 VAC COIL; CONTACTS RATED 5 A 115 VAC. 1¾x1x1-3/8 #5945-233-1398, $1.25

ALLIED CONTROL T255X-18, coil 115 VAC 2580 OHMS. GOLD-PLATED DPDT CONTACTS RATED 5 A 29 VDC. ⅝x-7/8 x1-3/8. UNUSED, $3.00 EA.

4PDT RELAYS, 110 VDC, heavy contacts. 2x2x1¼. Removed. #DOX187T, 5000 coil, $2.00 #DOX137T, 24 VDC 230Ω $1.50

DUAL COIL each 3PST; one 24 VDC, other 48 VDC. PCB mtg. 2¾x1¾x1¼; #116-2601, $2.50

TIME DELAY/SEQUENCE RELAY, has 3-SPDT & 1-DPDT 12 VDC 5 A. relays. Delay sequence ON/3.5s/5.0s/10 sec. Solid-state w/24 V 1 amp transformer, 250 mfd 50 VDC cap. 115 VAC 60 Hz input. 7¼x3¾x3¼, 3 lbs sh. #140-P197C $6.95

SIGMA DC RELAYS; OPEN-FRAME, 2 AMP CONTACTS, 1¼x2¼x1⅛ REMOVED F/EQUIP. #41F500SIL 6 VDC 5A, $1.25 #41F1000SIL, 12 VDC, $1.50

GUARDIAN ROTO-MITE STEPPER, 12 VDC 12 position 3 amps resitive. 3x 1¼x1¼; #705-12P-12D NEW $4.

HEAVY DUTY SPST MICROSWITCH ASSY with electrical reset. Depress plunger to open circuit; close only with 48 VDC to wire leads. In rugged cast aluminum case. 3.5x3.3x1.5 plus 1" plunger; 2#. #2CE17, NEW, $5.95

MOTOR DRIVEN SPST RELAY normally open, 115 VAC 60 Hz 10 A contacts. Non-synchronous 115 VAC 4/5 RPM motor's cams can be set to make contact over 30-60 sec range. Provision to bring out shaft. 2.5x4x2, 1 lb. #N17R-68292, unused $5.

E-T-A CIRCUIT RESET push switches, type 45-700-F. Fits into 3/8" hole; requires 2" depth. O/A 1¼x2¾x⅞; Used. 250 VAC 5 amp, $2. " " 15 A, $2.50

MUTER 433-AC 10K OHM POT, 1930's-40's precision pot; ¼" dia shaft. 3¼x5¼" dia. Unused $4.

STEPPING SWITCH 9-deck 20-position 115 VDC Clare type 20 6x6x2, 5 lbs. #A320750 $10.

#7709181-P6, 9-deck 25-pos 24 VDC $7.50

ELECTROL 5 VDC 280 ohm REED RELAY; 2½x1¼x¾. #R-4376-2 $2

F&B KR-4175-1 DPDT PLATE RELAY; sealed metal can, requires octal socket. 2.5x1.5 x1.4, unused, $2.00

P & B 3PDT PLUG-IN TYPE RELAY WITH 24 VDC COIL. 120 VAC 10 A. CONTACTS. #KUP14D15, W/SOCKET, $2.95

AC CONTROL RELAY, 120 VAC COIL; SPST N. OPEN 10 A. AND SPST N. CLSD. 10 A. CONTACTS. SEALED CAN, SOLDER TERM. 3 STUD MTG. 2¼x 1¾x1¾. #7321/6717, $2.50

DOLLAR DAZE RELAY PC BOARD, 3-SPDT 12 VDC relays in 1x5/8x¾ plastic cases $1.50

RHEOSTATS

RHEOSTAT VALUES: FIRST SET OF NUMBERS AFTER RHEO-PREFIX IS THE WATTAGE. YOU INDICATE DESIRED OHMS IN SECOND SET. SCD= SCREWDRIVER ADJUST.

#RHEO-25W-(ohms), $1.50 ea:				
2	5	6	7	
	15	37.5	50	60
75			175	200
250	300	350	400	500
600scd	1K	1500	2500	3500
5K	10K	20K (DUAL 50Ω $3)		

#RHEO-50W-(ohms), $2.00 ea:				
5	8.5	10	15	16
18	20	30	35	150
200	225	275	500	10K
DUAL 35 $4; TRIPLE 2.8 $6				

#RHEO-75W-	15	25	100	$2.50
#RHEO-100W-	5	20	125	1K $3.
#RHEO-150W-		500	750	$4.00
#RHEO-225W-		2500	ohm	$6.00
#RHEO-500W-		19.7	ohm	$15.00

#CP800/50K, 50K ohms 12-step 5%, used $4.50 #T800/50K, 10-step "T" 1% $7.

MIRRA 25 WATT "ANTIQUE" POTS w/ knob and pointer. Looks like those used in 1920's radios. Specify ohms: 6, 250, or 400. Unused, $4.50

10-TURN HELIPOTS 2"Lx1¾" dia; ¼" dia shafts. Used.

30K ohms 3-term 3% 1/2"L shft $3
50K ohms 3-term 3% 1/8"L shft $3
100K ohms 3-term 5% .5" shft NEW $4.

RB-DUODIALS f/above Used $5

++ RADIO COLLECTOR'S ++ DIRECTORY AND PRICE GUIDE by R. Grinder & G. Fathauer; 1921-1941 in listings, commentary, pictures. 351 pp; 3 lbs sh. $15.95

REED RELAY CIRCUIT BOARD, 3/500 ohm and one 5K ohm 10-15 VDC reed relays w/large 1/8x1/16" contact area. Also one 26 VDC DPDT sealed relay 3/8x¼x7/8 #792-312, unused, $3.95

CRYSTALS

FT-241 CRYSTALS f/BC-604, 684; channels 0-79. No choice 3/$1. Choice $1.50

200 KHZ FT-241 XTAL, $3.50

1000 Khz CRYSTAL, temp. coeff. 0.0001% (±10 Hz/°C. Octal base; f/BC221-TS323-LM21 freq. meters. Socket wiring may be changed. $12.

JK-02 CRYSTAL OVEN FOR CR-26 CRYSTALS OPERATES FROM 6.3-24.2 V. AC/DC, OCTAL BASE. MOTOROLA #2518I001 FOR ONE CRYSTAL AS USED IN R-394-257 RECEIVERS. $1.95 MOTOROLA#2518I003 FOR TWO CRYSTALS AS USED IN T-278-208 ETC. TRANSMITTERS$2.50

3.6 MHz CRYSTAL OVEN, octal based unit has CR-28 type crystal; 110 VAC. 4x1.8x1.5 ! lb. #Y501/FR-5, used, $7.

12.0 MHZ CRYSTAL OVEN octal based unit has CR-36 crystal; 24 VDC. 1.8x1.3" dia; #XTL-MD203, used, $4.95

AN-3160 PUSH-BUTTON aircraft circuit breaker, 24-30 VDC; 5 or 10 amp, $1.25 ea

HEINEMAN MODEL AM12HK, 2¾x2¾x2¼ 12 VDC 3 A $1.25 50 VDC 3 A $1.35 50 VDC 40A $1.50 AM1516 50 V 100A 4x3¾x1 $4. AM12 115 VAC 60 Hz $1.50 ea AMPS: .93, 1.75, 4.2, 5.15

AIRPAX UPL1-11-676 65 VDC 45 A; delay 51, trip 56.25 A. 2¾x2¾x2¼. NEW $3.

#UPG1-1REG2, 65 VDC 1.25 amps; delay 51, trip 1.57 amps. Aux switch 10 amp 250 VAC. 2¾x2¾x2¼, $3.00 HEINEMAN AM33MG3, two pole 115 V 10 A; 1¾x2¾x2¾ $2.50

HEINEMAN CD2 type CIRCUIT BREAKERS, ganged two pole; 4¾x2x4 2 lbs. NEW #CD2-Z10-1, Rt 0.035 A DC Cur P. Lt 68 A 270 VAC 60 Hz Cur 3. $4.00 #CD2-Z74-2, 10 A 132 VAC 60 Hz T.D. 2; 125 A 10 VDC T.D. 3. $4.25 #CD2-A3-DU, two 18 amp 240 VAC T.D. 1. $4.50

P&B #375-207-101, 7 amp 250 VAC or 32 VDC max. Recessed button. ¾x1¾x1⅝. NEW, $1.25

HEINEMAN CIRCUIT BREAKERS: #AM2511M6, 230 V 3.7 amps 3¾x3¾x1, used $2.25 ea #JA2-A8-A, 240 VAC; hold 17 A, trip 21.25 A. $2.

MAGAZINES

We carry current issues of CQ $2.50 QST $3.00 Ham Radio $2.50 73 $2.95

BOOKS & TECH MANUALS

$4.00 each: AM-598; PP-867-868 -869; TV-7 TUBE TEST DATA, 1/62 ed; PP-846; DY-93-98-100; ARC-27 O.I.; ARN-59 O.I.

$5.00 each: Fr-1175; FD-143C; RD-60; AN/33C-1; I-208; AN/PDR-27

$5.00 each: RT-66-67-68; RT-70; AM-65; R-520 (mil-Zenith Transoceani; BC-191; BC-375; RU-19; BC-321AH only; PP-281-282 -484 repro; PP-804; PP-109-113; Mk-26

$7.50 each: SX-28 repro; BC-652-653; AN/VRC-7; BC-1000; BC-1335; AN/PRC-6; AN/GRR-5; R-108-109 -110; R-257; R-394; T-278-416; AN/ARN-12; AN/GRT-3

FGC-20 & 21 contains TT-98, -99, -100 and PP-978, $10.

TERMS: All manuals include maintenance info & schematic unless noted otherwise. O.I. Operating info only N.S. No schematic repro -Partial reproduction w/operating, maintenance info & schematic.

AN/ARC-5 BENCH TEST and ALIGNMENT, covers necessary info to align R-23A, R-148, R-25-26-27 receivers; T-18 thru T-22 xmitters; and MD-7 modulator. W/schematics; repro. $7.50

R-105/ARR-15 repro	$15.00
AN/ARC-38 repro	17.00
AN/ARC-38A repro	20.00
RT427/ARC-39 repro	10.00
AN/ARC-44	8.50
ARC-60 (R19-CV431)	8.50
ARC TYPE 12 including R-10-11-15-19, T-11-13, and related equip.	8.50
AN/ARN-30 repro	10.00
R-648/ARR-41 repro	15.00
AN/ART-13 transmitter only, repro	12.00
AN/APR-4 repro	10.00
AN/GRC-9	8.50
AN/GRC-10	8.50
AN/GRC-14 (R-808/T-631)	$22
AN/ARR-52 repro	17.00
R-395/PRD-1 repro	15.00
AN/TRC-1 (T-14, R-19, and AM-8 pwr amp)	8.50
AN/TRC-8 (T50/R-48)	8.50
AN/VRC-19 (R394/T278)	8.50
R-391/URR repro	17.00
BC-AS-229 repro	8.50
BC-348-J-N-Q repro	10.00
BC-348-K-L-R repro	10.00
BC-624/625 repro	15.00
BC-639 repro	8.50
BC-669 repro	8.50
BC-779/1004 repro	12.00
CV-157 repro	15.00
CV-591 (MSR-4) repro	8.50
R-140 (HRO-5) repro	10.00
R-220/URR-29	$12.00
R-274 repro	12.00
R-388 (51J3) repro	10.00
R-390 repro	15.00
R-390A repro	15.00
R-392 repro	15.00
SP-600-JX repro	10.00
T-195/GRC-19 repro	15.00
TCS-12 repro	12.00

ARMED FORCES CROSS INDEX OF ELECTRON TUBES, 8/52; older mil-tubes, 120 pp. $12.50

A USERS GUIDE TO ARC CORP RECEIVERS --by M. Tauson; ARC-5, ARC-type 12 etc. $4.

MAINTENANCE TM for Collins 490T-1 (CU-1658/1669). $14.

LOW & MEDIUM FREQUENCY SCRAPBOOK, 4th Ed. $9.95

TI SEMICONDUCTOR MEMORY BOOK (1975), 272 pp, $1.00

TEST EQUIPMENT MANUALS

AN/TRM-1	repro	$10.00
AN/URM-25D	repro	10.00
AN/URM-25F	repro	10.00
AN/URM-26B	repro	12.00
SG-12/URM-48	repro	12.00
TS-403/URM-61	repro	12.00
TS-621/URM-52	repro	10.00
FR-5/URM-80		7.50
TS-510/USM-44	repro	10.00
AN/USM-50	repro	10.00
AN/USM-105	repro	17.00
AN/USM-116	repro	10.00
AN/USM-117	repro	15.00
AN/USM-140	repro	17.00
FR-149/USM-159	repro	10.00
BC-221 f/most models		7.50

Reproductions $8.50 each: ME-6D, ME-26, QS-8, SG-92, TS-148, TS-352, TS-375, TS-382, TS-433B, TS-497B, TS-505, TS-1060, IP-173B, PRM-10

TV-2, -7 or -10A $10 ea.

TEK G	$6.00	TEK H	$6.00
W	6.00	1A1	$10.
1A2	7.50	1A4	7.50
1A5	7.50	130	6.00
131	6.00	132	6.00
453	8.50		

CA partial repro, 8.50
HICKOK 1805, part-repro $15

PARTIAL REPRODUCTIONS

BC-312-342	$10.00
BC-603/604 (SCR-508)	$10.00
SCR-509/510 (BC-620)	$10.
SCR-608/628 (BC-683-684)	$10
CV-1982/TSC-26	$10.00

ARRL BOOKS

1987 RADIO AMATEUR HANDBOOK, $18.
FIRST STEPS IN RADIO, $5.00
ANTENNA BOOK, theory and instruction on antennas, $8.
ANTENNA COMPENDIUM, articles from QST, $10.
SOLID-STATE DESIGN, $12.00
THE COMPLETE DX'er, $10.
UNDERSTANDING AMATEUR RADIO, an introduction, ~~$5.00~~ $4.
OPERATING MANUAL, $7.00 HINTS & KINKS, $4.00
FM & REPEATERS, $5.00 ARRL LOG BOOK, $2.50
RADIO FREQUENCY INTERFERENCE, $4.00
TUNE IN THE WORLD OF HAM RADIO, wkbook & casstte $10.
BASIC BOOK OF HAM RADIO, $4.95 WEEKEND PROJECTS, $5.00
200 METERS AND DOWN, $4.00

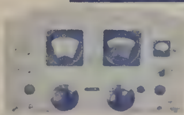
SCHEMATICS

REPRODUCTIONS of schematics $1.50 and up. WRITE.

VINTAGE RADIO

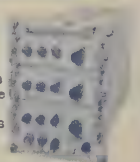
VINTAGE RADIO 1887-1929, pictoral story of radio's early years; 1000+ pictures and commentary, 263 pp. Softbound, $11.95
A FLICK OF THE SWITCH 1930-1950, sequel w/TV, $11.95
1921-1932 RADIO COLLECTOR'S GUIDE, listing of over 9000 radios, 1100 mfgs; 263 pp. Softbound, $11.95
MOST-OFTEN-NEEDED 1926-1938 RADIO DIAGRAMS, reprint of Beitman's book of 600 old radio schematics, $11.95

R-1511 RECEIVER



R-1511/GR HF RECEIVER, 0.54 to 54 MHz AM in six bands. Looks like and has the "front end" electronics of Hammarlund SP-600 but the IF and demodulation circuits are transistorized and unique to the R-1511. Has 13 PC boards including Video Channels A & B, Panoramic Amp (IF out), and Narrow Band Moni tor/Metering Circuit all with separate outputs. (We measured "Narrow Band" to be 40 KHz to the phone jack!) Besides tuning controls, front panel has RF Gain, AGC On/Off, Marker Control, BFO (non-adjustable), dimmer, and 0-100 db Video Level meter. Rear jacks for PAN out, Ch A, Ch B, Wavetrap, Ch A CONV/FLT, Ch B CONV/FLT, ANT, and VFO Monitor. Might be worthwhile to modify this radio with some inexpensive ceramic 455 KHz filters; no further info. Requires 115/230 VAC 60 Hz; 10.5x 19x17.5, 70 lbs sh. Used-reparable, $150.00

HF TUNED RECEIVER



R-1440/WLR-6 HF TUNED RECEIVER, solid-state unit operating over 1.5-19.0 Mhz AM-CW on 36 crystal-controlled channels; uses three plug-in band modules with 12 channels each to cover portions of the range. Each module is fully enclosed and shielded and has 12 adjustable antenna circuits, 12 adjustable RF amp circuits, crystal oscillator (uses CR-18 crystals - not available), mixer, 455 Khz IF with Clevite filter, detector, AGC, BFO; controls for BFO, RF Gain, AM/AGC-AM/ Man-CW, Channel select. Mainframe which holds three modules, serves as 115 VAC 60 Hz power supply and audio amp; has Volume, Band select 600 ohm Audio jack. Band modules available:

Band 1 (1.5-3.5 Mhz) Band 2 (sold out)
3 (3.4-7.2 Mhz) 4 (sold out)
5 (7.9-19.0 Mhz). Our tests have found that the modules can be operated as independent receivers on 12 VDC input and with addition of an audio amp. Also sensitivity less than 1 microvolt and that modules may be tuned over broader range than specified band limits. We will ship three different modules of your choice with each mainframe; please specify your second choice. 8⅝x6¼x16⅝, 23 lbs sh. Used-reparable, $150.

MANUAL for R-1440, partial repro, $10 w/set.

SURVEILLANCE RECEIVERS

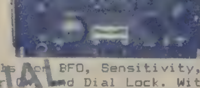
G175F SURVEILLANCE RECEIVER, 30-260 MHz AM-FM-CW in bands 30-90 and 60-260 MHz; IF's 0.455-2.5 21.4 MHz for bandwidths 10-40-300 KHz. Sensitivity 1 uv (AM), 2 uv (FM) min. @ 10 KHz bandwidth. Also controls BFO, AF-RF Gain, Squelch, CORS Sens, Fine Tune. Nuvistors 13/7587, 6/6CW4, 2/7077; some transistors. Requires 115 VAC 60 Hz; 24 VDC for lights. No further info; 4x18.3x17.5, 27#. Used-operational/not to specs, ~~$325.~~ $265.

* *

G166C RECEIVER, companion to G175F except 235-1000 MHz AM-FM-CW in bands 235-500 and 460-1000 MHz; 40 and 300 KHz bandwidth. Used-operational/not to specs, $400.00

REDUCED

R-648/ARR-41 RECEIVER



R-648/ARR-41 RECEIVER 190-550 KHz and 2-25 MHz AM-CW in five bands. Mechanical digital-type tuning in 1 KHz steps. 500 KHz final IF: mechanical filters 1.4 abd 6.0 KHz. Controls for BFO, Sensitivity, Broad-Sharp Noise on/Off and Dial Lock. With tubes 2/5726, 2/5749, 2/5750, 2/5814, 5654, 5686, 6AU5, and OA2. Requires 24 VDC 4 amps input for dynamotor. 7.8x15.3, 35 lbs sh. Reparable, ~~$150.~~ $125. Checked, ~~$220.~~ $195. MANUAL, partial repro $15. Schematic $2.50 Power input connector, $3.00 w/set purchase.

SPECIAL PURCHASE

30-300 MHZ RECEIVER

R-1420/URR (CEI 905A) UHF RECEIVER, covers 30 to 300 Mhz AM, FM, CW in bands 30-90 and 60-300 Mhz; bandwidth selective 20 or 300 Khz. IF 21.4 Mhz; IF reject @ 30 Mhz is 54 db, above 50 Mhz is 80 db. Sensitivity: 1 uv/4 uv (AM) and 2 uv/ 6 uv (FM) for bandwidths 20 Khz/300 Khz @ modulated 1 Khz. Video output 5 vrms across 10K ohm load. Meters for Tuning and Signal, separate band tuning knobs and dials, BFO, RF/IF Gain, Audio Gain, Video Gain, Cor Sens, 600 ohm auio out. Partially transistorized; has 2/6CW4, 8058, 7587 nuvistor tubes. Requires 115/230 VAC 50-400 Hz; partial repro manual from microfiche included. 3½x19x15, 25 lbs sh. Used-operational/not to specs $395

COUNTERMEASURES

R-1125/R-1230 COUNTERMEASURES RECEIVER for 2-32 MHz in bands 2-4, 4-8, 8-16, 16-32 MHz. Designed for direction finding purposes and features frequency stability of 3 parts/10^6 ±50 Hz. Sensitivity 3.5 uv max input for 10 db signal + noise:noise. First IF 1625-1725 KHz, 2nd 220 KHz, and 3rd 65 KHz. Separate Megacycle and Kilocycle 3-digit mechanical tuning counters in 100 KHz increments plus VFO for continuous tune. Meters for Signal Strength and 100 KHz Tune and controls for AGC, Output Level, and Hi-Lo DF. Unit has 65 KHz output with 60 KHz bandwidth only: does not have onboard detector or audio amplifier. External 100 KHz reference signal required for tuning control. With tubes 6/5654, 5670, 3/5749, 4/5750, 6005, 13/7586 nuvistors, and 13 semiconductors. Requires 175 VDC, 5 V (lights), 6.3 V (fil.), 18 V (reg-circuit), and 115 V (100 KHz) osc) originally supplied by O-928/FLR oscillator power supply (not available). 6.2x19x24.5, 70 lbs. Used-reparable w/repro book, $115.00

WW-2 AIRCRAFT TX-RX

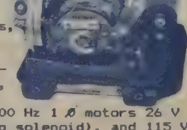
SCR-522 RECEIVER-TRANSMITTER, WW-2 vintage unit has 30 watt output over 100 to 156 MHz range on 4 crystal controlled channels (crystals not available). 17 tubes including two 832's in P-A. External DC supply and control required listed below. 16.5x12.5x10.8, 50#. Used, $29.95

MANUAL for SCR-522, partial repro, $15.00
PE-94 DYNAMOTOR SUPPLY, powers SCR-522 from 28 VDC 11 A input. 12x5x8, 35#. Used $9.95
BC-602 PUSH-BUTTON CHANNEL CONTROL, used $6.
PLUGS f/RT (3), PS (2), BC-602 (1), $2.50 ea

VERTICAL GYRO

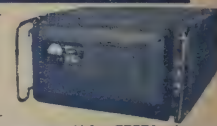
115 VAC 400 Hz VERTICAL GYRO ASSEMBLY with 24 VDC caging solenoid pictured with cover removed. 360 degree roll; +/-85 degree pitch. Gyro output is to be used with selsyn-type receiver indicators. 6x4x4 in sealed can; 6 lbs sh. #VG-1701-319, used, ~~$19.95~~ $15.

GYROSCOPE ASSEMBLY



HONEYWELL VERTICAL GYRO ASSEMBLY #JG-7044-A17, single pitch and roll gyro with 400 Hz motors, mercury switches, etc. Gimbal freedom: ±360° (outer axis, longitudinal), ±85° (inner axis, transversal). Erection rate 2°-6° min. Also 400 Hz 1 Ø motors 26 V (torque), 115 V (caging solenoid), and 115 V 21000 RPM (power motor). Pick-up pots: 30K² ohm ±168° (roll), 30K² ohm ±80° (pitch). Angular momentum: 4.75×10^6 gm cm /sec. Unit has "line of flight" monitors for normal loft or alternate O/S. 7.5x9x6; 11 lbs. Used, $25.00

SSB HF TRANSCEIVER



RT-594/ARC-38A AM-LSB-USB HF TRANSCEIVER, 2.0 to 25 MHz using 20 preset channels with autotune channel change. Uses stabilized master oscillator which allows possible 35250 channels in frequency intervals of 500 Hz (2.0-7.25) and 1000 Hz (7.25-25.0 MHz). Transmitter output: 100 watts peak min (2-14.25 MHz) 90 W (14.25-25 MHz). Antenna tune power: 50 W. Receiver SSB sensitivity: 1.5 uv for 10 db signal + noise to noise ratio. Selectivity: 3 Khz min 6 db down, 8 KHz max 60 db. Has 25 tubes including three 6159's in PA. Requires +28, +600, +250, -50, -65 VDC and 6.3 VAC. Also 115 VAC 400 Hz for selsyn on PA inductor. 15.5x8x23.5, 80 lbs sh (UPS in 2 pkg). Used-not checked, $210.00
MANUAL partial repro, $20.00

C-1398/ARC-38 CONTROL BOX, channel selection for RT-311/ARC-38 but function switch can be modified for use with RT-594; see page 24. Used, less frequency setting book, $15.00
SETTING BOOK for C-1398/C-3428, repro, $10.

DY-118/ARC-38 DYNAMOTOR for RT-311-594/ARC; provides all DC voltages from 28 VDC 6.6/26 amp Rx/Tx. 4.9x6.8x18.3, 25 lbs. Used, $35.

CU-351/AR AUTOMATIC ANTENNA COUPLER, companion coupler to RT-594/ARC-38A; similar to Collins 180L3 described on page 24 except has Cannon-style control connector and type N connection instead of UHF. Usable with any 2-30 MHz transceiver in 50-180 watt output range. Automatically resonates an antenna to transceiver's frequency and couples RF signal between the two. Coupler has 7-1000 pf 3 KV vacuum variable capacitior and 28 uH variable ribbon drive inductor. Requires 28 VDC 3 amps, 250 or 400 VDC 35 ma, and 115 VAC 400 Hz 20 VA. 10.5x7.8x11.5, 24 lbs sh. Used, $115.; Manual f/180L3, part-repro $10.

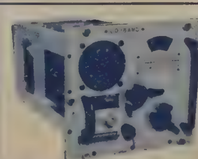
RT-311/ARC-38, similar to RT-594/ARC-38A except not SSB; used-not checked, $85.00

AIRCRAFT TRANSCEIVER

RT-524M AIRBORNE TRANSCEIVER mfg. by Aircraft Radio; covers 136.00 to 149.95 Mhz AM in 50 Khz crystal-controlled steps. 15 watts output. Has volume and squelch controls. Requires 24 VDC 6 amps. With tubes 8156, 2/8102, 6/6CW4, and 2/7587. Schematic included. Size:6.5x3.5 x14, 10 lbs sh. Used, no cover, ~~$54.95~~ $40.
MANUAL for RT524M, partial repro, $10.00

COLLINS VHF RECEIVER

COLLINS 51X2-B VHF RECEIVER, 108 to 135.95 MHz AM with possible 880 channels in 50 KHz steps. Compact aircraft set has selectivity of 40 KHz @ 6 db and 3 uv sensitivity for 6 db S+N:N ratio. Also 500 ohm phone jack, squelch, freq indicator, 516B-3 24 VDC solid-state power supply. Channel selection originally performed by 614U remote control which we do not stock. Tubes 6/5654, 3/5670; some transistors. 7.8x 3.8x13.5, 12 lbs. Used w/schematic, $49.95



AM-1955/GRC AMPLIFIER CONVERTER USED WITH R-1148/GRC-55 RECEIVER FOR 600-1000 MHZ BAND. 17 MHZ IF. HAS 115 V 60 HZ MOTOR AS PART OF AFC SYSTEM. WITH TUBES 2C40A, 2/5842, 5654, IN21B, IN21WE. 150 VDC AND 6.3 VAC REQUIRED. SIZE: 15x9½x8; 30 LBS. SH. USED, ~~$50.00~~ $38.

CANADIAN REMOTE STATION

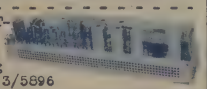
CANADIAN CHANNEL CONTROL BOX, originally used as a four channel remote unit for a transmitter; looks like it might be adaptable as part of an intercom system. Has push-to-talk handset, 3½" 600 ohm PM speaker, audio transformers 600 ohm to 8 ohm and 50 ohm to 600 ohm CT, volume control, channel selector (2-deck, 6-pole 4-position each), phone and key jacks, two pilot lights, and other parts. Heavy aluminum cast case. 15⅝x13⅝x6¾, 34 lbs. #CAN-4C-RC unused $22.95

VFO - EXCITER - MOD

VFO-MASTER OSCILLATOR FROM THE T-195 TRANSMITTER; GENERATES FREQUENCY OF 1.5 TO 3 MHZ. HAS 5749 OSCILLATOR TUBE AND 5749 BUFFER-AMP TUBE. WITH ⅜x3/16" DIA. SHAFT. 2⅞x3¼x7, WT: 5 LBS. VFO/T-195, REMOVED F/EQUIPMENT, $7.95

MODULATOR F/T-195, DESIGNED TO PROVIDE PROPER AUDIO POWER TO MODULATE POWER AMP AND SUPPLY SIDETONE. 300 HZ AND 3500 HZ BANDPASS. W/TUBES 5726, 2/12AT7, 5814. LESS 4X150 TUBES AND SOCKETS. 8½x6x4½, 6 LBS. $10.95

TRANSISTORIZED GUARD RECEIVER f/ modified RT-178/ARC-27; one channel in 238-248 Mhz range. IF's 25.1/3.45 Mhz; has detector, noise limiter, AVC, 4/2N1745 transistors, and 25.1 Mhz filter. 8x4½x4, 6 lbs sh. #5821-953-9695 used $12.95



AM-777 AMPLIFIER DETECTOR, p/o RT-128A/ARC-21 2-24 Mhz transceiver; IF's 1800/300 Khz. Slug tuned; w/tubes 4/5636, 3/5896 3/5899, 3/6021, 5840, 5902, and 5719. Schematic included. 13½x2x3½, 5 lbs. Used, $10.00

HYDROGEN GENERATOR

M315B HYDROGEN GENERATOR, used to provide hydrogen for 4' balloon p/o CRT-3 Gibson Girl rescue radio. Has 1200 grams of calcium hydride crystals in long can which, when immersed in water, produces hydrogen gas. (EXTREME CAUTION must be exercised in the performance of this process because hydrogen gas is dangerously flammable and the liquid calcium by-product is very caustic!) The M315B cans are dented; suitable only for the recovery of calium hydride. 11.6"x4.3" dia, 4 lbs sh. Unused-dented, $6.95 ea; 2/$12.00 INFLATION TUBES for M315B, $3.00 ea

TRANSISTOR RADIOSONDE

TRANSISTORIZED RADIOSONDE WITH CLOCKWORK TIMING MECHANISM (NO KEY); USED IN METEOROLOGICAL OBSERVATION OR SIMILAR APPLICATIONS REQUIRING AN EXTREMELY LIGHT-WEIGHT TRANSMITTER. UTILIZES A 2-TRANSISTOR MODULATOR AND A 2-TRANSISTOR TRANSMITTER CIRCUIT. TRANSMITTER HAS A 7533 INTEGRAL CAVITY TUBE WHICH FUNCTIONS AS THE TUNED CIRCUIT FOR THE OUTPUT: 1660-1700 MHZ, 575 MW (NO FURTHER DATA). WITH HUMIDITY ELEMENT. TRANSMITTER SIZE: 2½" DIA. X 6"; OVERALL SIZE: 7¾x4x5½. 4 lbs sh. FRIEZ #3002, unused ~~$9.95~~ $6.95

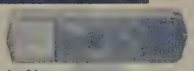
AN/AMT-4A RADIOSONDE, consist of T-304A xmitter and MD-147C modulator; unit is similar to Friez 3002 except uses tubes 5794 and 5875 and operates at 1680 Mhz. Requires 1.5, 6, & 15 VDC. 2 lbs sh wt. #T-304A transmitter only, $4.95; 2/$8. MD-147C modulator only less humidity and pressure elements, $3.00; 2/$5.

T-69F/AMT-2 RADIOSONDE XMITTER only, 390-410 Mhz; 5703, 5910 tubes--$2. BB208 battery, $2.

TELE COSTER I

TELE COSTER I TELEPHONE METER, cost-effective device for the individual or business who wants to keep "tabs" on the length and costs of long-distance and, perhaps soon, local telephone calls. Initial and secondary rates/period are programmable using the numeric plus 6-function keyboard. LED display shows cost/period plus elapsed time hr-min-sec. Also display flashes 15 sec before rate change and has X60 speed-up time so maximum acceptable charges could be determined before the call. In sturdy, handsome beige plastic case. Requires 115 VAC 60 Hz; 2 lbs. NEW w/info $8.

TAIL LIGHT ASSEMBLY



TAIL LIGHT ASSEMBLY with red tail/brake light and back-up light; also license plate bracket and one each GE1156 and 1157 bulbs. 13x6.5x3.5; 3 lbs sh. Peterson #M418LBL, NEW, $6.95 ea; 2/$12.00

OFFICE CASTER SET

OFFICE EQUIPMENT-STYLE CASTER SET, includes four 2.3" dia dual-wheeled black plastic casters with 3/8" dia threaded 1/2" long metal shaft. Two of the casters have a brake lever. Designed for copy machines but usable for similar weight equipment where "good looks" is a consideration. With hardware and instructions; 2 lbs sh. #73S1234, NEW, $7.50

VASCAR II SPEED TRAP

VASCAR II DISTANCE/TIME COMPUTER-INDICATOR originally used by police agencies for clocking speed of vehicles while the police car was in motion or stopped. Speed of unknown vehicle determined by referencing a pre-measured distance or the distance can be set while both vehicles are moving. VASCAR can determine speed of vehicle in front of, behind, in opposite direction of, or across the path of the police car. Displays average speed in tenths of miles per hour upto 199.9 MPH. Computer module consists of four circuit boards with 5 VDC logic and transistors. Operates from 12 VDC 3.4 amps. Includes computer module, control/indicator module with cable and plug, power plug, and manuals. "AS-IS" transducer is now included. 2.5x13.5x7.3, 18 lbs sh. Used-not calibrated, $60.00

X-RAY CONTROL

RITTER X-RAY CONTROL PANEL, interesting experimenter item; has 0-120 VAC 2.4 amp Staco variable xformer, 20-pos Impulse/Seconds switch, 1.8x0.8" edge-meter, SC110 120 VAC Sonalert, 7 A circuit breaker & ON-OFF rocker switch. 12.3x12.3x3.3, 7 lbs. #R-XR-CP, NEW, $17.95

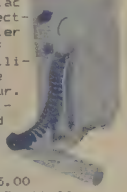
#NVR-XR-CP above X-RAY control less the variable transformer; 4 lbs sh. $4.95

GRAB BOX ASSORTMENT OF USED AND UNUSED MANUFACTURERS AND GOVERNMENT SURPLUS ELECTRONIC PARTS SUCH AS ASSEMBLIES, MOTORS, COILS, TRANSFORMERS, CHOKES, CIRCUIT BOARDS, CAPACITORS, RESISTORS, AND OTHER USABLE ITEMS. PACKED IN 50 LBS. CARTONS. $7.50 EA. OR TWO CARTONS FOR $13.00.

Shipped via UPS with freight charges varying from $6 to $24 per carton. Allow for charges.

GRAB BOX IS GOOD FILLER TO TAKE ADVANTAGE OF MOTOR FREIGHT 150 LBS. MINIMUM WEIGHT RATES.

PDR-27 RADIAC SET



AN/PDR-27 PORTABLE RADIATION DETECTOR consisting of IM-74 radiac meter and DT-53 or similar detector probe with BS-1 Geiger-Mueller tube. Meter indicates amount of beta and gamma radiation in milliroentgens per hour. Range scale 0.5, 5, 50, and 500 M-rtngs/hour. BNC connection for headset monitoring. Requires 135, 22.5, and 1.5 VDC originally supplied by batteries (not available). 8x6x12.5; 15 lbs sh. Used, $29.95

MANUAL for PDR-27, original, $5.00

SPARE GM TUBES, BS-2, $6.00

TRANSIT CASE for PDR-27, $6 w/set purchase.

H-43 HEADSET for PDR-27, $5.95

HY-GAIN CB BOARD

HY-GAIN CB TRANSCEIVER BOARD; 3 xtals, IF transformers, RF coils. Similar to Hy-Gain boards converted to 10 meters (73 Meg. 2/$40 and 6 M (73, 2/$5); no further info. 6.4x6, 2 lbs. Unused AS-IS $3.95 2/$ 7

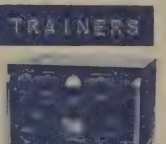
INDUSTRIAL RINSE / DRY

FLUOROCARBON RD4500 RINSER/DRYER, designed for semiconductor industry; capacity for 100 4" wafers. Insert for wafers easily removed leaving 16.5" dia X 7" D stainless-steel drum w/ 2" dia drain adaptable for your own projects. Separate 3/8" O.D. lines for water and nitrogen (or air); N2 line has quartz heater to raise gas temperature 180 C. RedHat valves pass 20-40 PSI 2 GPM water and 30-40 PSI 6 SCFM N2. Drum rotated by Gould 1/4 HP DC motor with adjustable rinse times 0-450 (rinse) and 0-1850 RPM (dry); 16.8" mount depth. Model 379B timer has two 0-6 minute ATC timers and AC to DC motor control. Model 287C box controls Start-Stop functions plus has 0-20 x 100 RPM meter and Sonalert. Book and cables included; requires 115 VAC 50/60 Hz. 120 lbs (95 lbs without insert); UPS in 2 pkgs. Used, $115.

WEBCOR RECORDER

WEBCOR TAPE RECORDER plays and records 3-3/4 or 7-1/2 ips on upto 7" dia reels; has fast forward/rewind, edit lever, footage counter, and 20-0-20 record level meter. Built-in speaker; jacks for mic, bridge and external speaker. Monaural use only; 100-10000 Hz response @ 7-1/2 ips. 500K mic impedance; tubes 12AU7, 12AX7, 6X4, 6BQ5, 6HU6, 7025. Requires 115 VAC 60 Hz. 13.5x12.3x7, 32 lbs. Used-checked for basic playback/record; may need further adjustment. Without mic & reels. #WEB-173B $35. MIC $6. MANUAL-partial $8.50

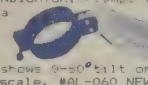
ANTI-JAMMING TRAINERS



AN/ULT-T2 (15X12) X-BAND INTERFERENCE TRAINER, a low power transmitter in the 8500-9600 Mhz range designed to train radar operators in anti-jamming techniques. Unit can be manually tuned and modulated by a sine or square wave, pulse, noise, or modulation from an external source. Has controls for CW, 5-16 Mhz/sec sweep, 250-500-1100 Mhz sweep sector, percent modulation, and pulse width 1-5 usec. Frequency modulation 15 Hz-15 Khz variable and fixed 50 or 100 Khz. Audio output impedance 600 ohms. Designed to be used within 50 feet of radar. Uses 2K45 klystron. Requires 115 VAC 50-400 Hz; with antenna horn. 13.8x19.8x19.8, 85 lbs sh wt. Used-complete, $65.00

Control Boxes Filters Indicators Tuning Units Amplifiers

ALARM BELL OPERATES FROM 24 VOLT D.C. SIZE: 4½x4½x2½ WT: 1LB #561-3 NEW $1.95

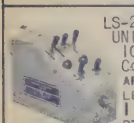


ANGLE INDICATOR, clamps to 2.5" dia pipe; metal ball in liquid shows 0-50° tilt on 4" curved scale. #AL-060 NEW $4

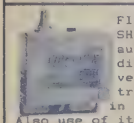
RF CHASSIS f/ Bendix RA-18C 108-136 Mhz receiver; 7-gang capacitor tunes ant-coil RF grid, RF plate, mixer grid, 1st osc-quadrupler, 1st osc-amp, & cathode follower input. Tubes 2/5654, 5670, 5725; requires 6.3-12.6-108-250 VDC. 3½x3½x10½, 5 lbs. W/ schem. #RF100-RA18 NEW $10.

TX MONITOR

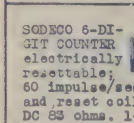
CARRIER MONITOR, provided DC and audio currents for remote check of xmitter operation. Units LESS 3 pf 15 KV vacuum capacitors but still good parts value including 600 VCT 35 ma transformer; tubes OA2, 6AL5, 6J6, 6X4; 600:600 ohm AF transformer, DPDT & SPST toggle switches two 49 pf air trimmer caps, etc. 6x8.5x6.3, 12 lbs sh. #CAR-MON-87, unused, $5.95



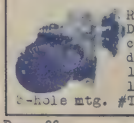
LS-230 INTERCOMMUNICATION STATION CONTROL BX CONTAINS 3 ROTARY 3 POSITION LEVER CONT. SW 1 LEVER SW. DP DT CENTER OFF, 1 LEVER SW. SPST 1 SIDE, OTHERSIDE SPST MOM. & CENTE OFF. 3 LITE IND. PHONE & MIKE JACK & 1 MIN. TRANSFOR 50 TO 500 OHM. SIZE:7x5x2½; WT:3 LBS. PRICE: $5.95



FIRE CHEX AUTO SHUTDOWN DEVICE automatically disconnects a vehicle's electrical system in a collision. Also use of its 80" spline control allows Fire Chex to manually "shutdown" electrical systems making it more difficult for a thief to steal a vehicle. With spline, fused line, mount brackets, info. 4.5x4.5x1.8 6 lbs. #FI-CHX, NEW $5.95



SODECO 6-DIGIT COUNTER electrically resettable; 60 impulse/sec count coil and reset coil both 24 V DC 83 ohms. 1-7/8x15/16 x4¼; #RG266, NEW, $8.95



RIGHT ANGLE DRIVE vernier control, 1½" dia. dial, w/ lock & coupling f/¼" shf 8-hole mtg. #TU-10RA, $2.

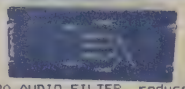
ARC-5 BOXES

BC-450 RECEIVER CONTROL f/ tuning upto 3 receivers. W/dials 190-550 Khz, 3-6 Mhz, & 6-9.1 Mhz; CW-off -MCW switches, volume controls, and phone jacks. 9½x5½x3, 3 lbs. Unused $8.

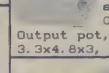
BC-496 DUAL RECEIVER CONTROL for SCR-274/ARC-5 receivers; tuning dials for 3-6 and 6-9.1 MO, volume, etc. 2 lbs sh. Unused $7.95

BC-451 TRANSMITTER CONTROL, for one to four Command xmitters; built-in key, mode, mic jack. Unused $5.

AUDIO FILTER

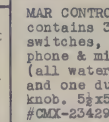


F-90 AUDIO FILTER, reduces interference in CW and audio signals for receivers. Provides sharp null at approx 1020 Hz in voice mode while frequencies near 1020 Hz are passed in "range" mode. Response can be broadened by placing variable resistor from input to output. 5.8x2.5x3.8 3 lbs sh. Used, $3.95 CONNECTOR for F-90, $2.50

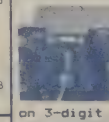


BC-366 JACK BOX switch "Comp-Liason-Command-Inter-Call", Increase Output pot, 2 phone jacks. 3.3x4.8x3, 2#. Unused $4.95

SPDT VACUUM RELAY ASSEMBLY antenna transfer relay from Collins 180L3 antenna tuner; coil 28 VDC 38 ohms. O/a 5x6x2.3, 3#. #K712/180L3, used, $19.95

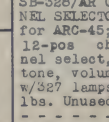


MAR CONTROL BOX, contains 3-SPST switches, two phone & mic jacks (all waterproof) and one dual pot w/dial knob. 5½x5½x3, 3 lbs sh. #CMX-23429, unused, $2.00



SB-327/ARC CHANNEL SELECTOR 24-51.9 MHz FM in 100 KHz steps on 3-digit counter; used with RT-294/ARC-44 Tx-Rx. 3x5.8x4.5, 3 lbs. Used $15.

SA-474/AR SWITCH BOX has mini-toggles 4/DPDT, 1/DPST and 2 pilot lights w/327 lamps. 2¾x5¾x2½. Unused $6.

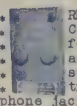


SB-328/AR CHANNEL SELECTOR for ARC-45; 12-pos channel select, tone, volume, 2-pilot light w/327 lamps. 2¾x5¾x4¾, 2 lbs. Unused $10. Used $6.

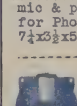
SB-329/AR SIGNAL DISTRIBUTION BOX, p/o ARC-44; WRITE

-A REAL BONANZA- HAS MANY ITEMS YOU CAN USE: 1¼" "tune to max" 300 us meter; 4-band bandswitch & dial assy; 5-position rotary sw with 1-pos mom momentary; spin crank for tuning with 10-turn pot; volume control w/3-gangs; five 327 lamps; Loop switch (L or R momentary); SPST toggle sw; other parts. Originally tuned R101/ARN-6 (p 4). May have broken wafer switch; 6 lbs. #C423/ARN-6 used $4; 2/$7.

AIRCRAFT FUEL FLOW GAUGES 3.5" dia type 6007; 26 V 400 Hz for autosyn; unused: ECLIPSE-PIONEER #51E-36B, 1 to 10 lbs/HR x 100, $22. BENDIX #3BB-7-B, 1 to 20 lbs/HR x 100, $25.00



RM-52 Remote Control used for radio and intercom set. Has transformer, mic & phone jacks. Source for Phone Patch project. 7¼x3½x5, 5 lbs. Used, $4.

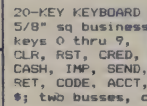


CRV-23253 TUNING CONTROL, p/o early WW-2 ARB set; four ranges covering 190 Khz-9.1 Mhz. Fits MC-124 spline 2 lbs sh. Unused $6.

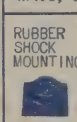
VIBRATORS

VIBRATORS, removed f/equip: VB-8, -9, -12 or -13 $3 ea. 3H6690-15 6 V f/PP-109, $6. 3H6690-16 24 V f/PP-112 $3. M1503S 24 V for AM-598, $3. 6 VOLT 6-PIN vibrators for PP-308, #VIB/PP308-6, $4. PP-68, #VIB/PP-68, $4. KS5566, 12 V 4-pin, $3.

BA-398/PRC-25 ARCTIC BATTERY PACK, consists of 72/1.5 VDC mercury cells wired to produce 2.5 V 400 ma and 12 to 15 VDC 1.4 A in cloth bag. 1977 date codes; unused but LV output weak. 6 lbs sh. $4.95 ea 2/$8.



20-KEY KEYBOARD 5/8" sq business keys 0 thru 9, CLR, RST, CRED, CASH, IMP, SEND, RET, CODE, ACCT, *; two busses, one for numbers, other instructions. 4x4.3, 2 lbs. #ECR4835, $3.

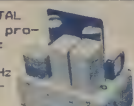


RUBBER SHOCK MOUNTING			
4 lbs		#4	$.45
6 "		#6	.50
12 "		#12	.65
16 "		#16	.75
24 "		#24	1.00
36 "		#36	1.25

OTHER WEIGHTS AVAILABLE.

M-300 ADAPTER

M-399 ALIGNMENT ADAPTER for BC-659 transceiver; allows the changing of crystals as well as the alignment of the set without the use of an external meter. Mounts inside the BC-659. 2 lbs. $5.00 M-394 ADAPTER f/BC-620, $5.



ART-13 CRYSTAL CALIBRATOR, provides 50 KHz fundamental using 200 KHz crystal. Also 1000 Hz tone for MCW operation. Tubes 2/12SL7, 12SA7. 6x5x3, 4 lbs. #XCAL-ART13, $12.

AUTOTUNE HEAD from ART-13, Control B multi-turn 0-100 dial. #23518, unused, $2.95

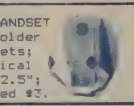
CDA-T CRYSTAL OSCILLATOR, converts 4 xtal-controlled channels to 200-500 KHz range; less xtals, $12.95

HEAVY DUTY CARRYING HANDLES, originally p/o 500 lb xmitter; rugged. Hardware not supplied. 4.5x4, 2 lbs. #HAND-610, used, $3/pair

MALLORY SONALERT

4 to 28 VDC, 2900 Hz cont., 64-78 db. Snap-look fit into 1.063" dia hole; ⅝x1-5/8 dia. #SNP-428, ~~$4.95~~ $3.50

MALLORY INTRUSION ALARM, hang on door knob and set sensitivity. Sonalert sounds when outside door touched. Will not work on steel doors; 9 VDC required #DRS-DC, ~~$7.95~~ $5.



TELEPHONE HANDSET HOLDER for older style handsets; metal, vertical mount. 3.5x2.5"; #HND-HDR used $3.

RECHARGEABLE

GATES 12 VDC CYCLON BATTERY PACKS, six 2 V rechargeable lead cells per plastic container package. Removed from equip; Checked: #0810-0016, 2.5 AH; 8.3x2.7 x1.4, 3 lbs. $7 ea; 2/$12. #0800-0080, 5 AH; 5.4x3.1 x3.6, 6 lbs. $14 ea; 2/$25 #0800-0016, like #0800-0080 but without case. $12.00

2 V 5 AH CELLS only from above; 1#. #2V5A-CL, $2.50

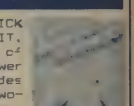
NICAD SUB-"C" CELLS, 2.5 V 800 ma per pair; each 1-1/8 x1" dia. #NC-SC-PR $2.50/pr

BA-316/AM WATER-ACTIVATED BATTERY, 7.5 V and 114 V; 5.5x3.3x3.8, 1#. $1.00

COCKPIT LAMP

AIRCRAFT COCKPIT EXTENSION LAMP Type B-7; black plastic lamp on 5.5 ft spring retractable cord and uses standard 2-contact auto bulb. Has dimmer & ON-OFF switch; 2 lbs. Unused $6.95

DISCONNECT KIT



HAR-COR's QUICK DISCONNECT KIT. easy hook-up of accessory power leads; includes mated pair two-conductor connectors & four 3M #558 crimp connectors f/#18-#22 wire. NEW $1.25/kit; 5/$6.00

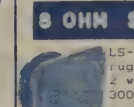
TYPE B-7 INTERVALOMETER, used with aircraft cameras to set intervals between exposures. 0-80 dial set, 3-digit exposure counter and buttons for RECYCLE, START, STOP, SINGLE EXPOSURE. Requires 24 VDC 75 ma; 5x7x4.8, 10 lbs sh. Gov't-reconditioned, $12.95

FAIRCHILD SHUTTER as used in 12" FL aircraft cameras; 90 mm dia shutter has keyed shaft for motor but can be tripped manually. 132 mm dia lens ring; o/a 9.3" dia, 9 lbs. #SH-12EFL, $14.95

TUNING METER

for security door alarms; includes 500 ua 1.75" meter, transistor meter amp, 22.5 V battery, 3 test leads and instructions. Adapt to other test uses! 4x2.9x1.8, 2 lbs sh. #TM-LC75 NEW $5.95

8 OHM SPEAKER



LS-445 4" SPEAKER ruggedized 8 ohm 2 watt PM type; 300-7000 Hz response. P/o LS-166 loudspeaker; 3 lbs. Used $7.95

BB-51 BATTERY 6 V. 2.75 hours thru 30Ω lead cells. Dry charge. 1¼x3½x7/8, 3 oz. $1.50

BB-52, same as BB-51 except 36 V. 3 A. thru 1200 ohms. $1.00 ea. BB-208 BATTERY PACK, contains BB-51, 3/BB-52, $3.

MINIMUM ORDER $5.00

PUSH-TO-TEST

PUSH TO TEST INDICATORS WITH MARKINGS ALSO HAVE CLEAR & AMBER LENSES

KORRY MFG., ALL UNUSED.

KORRY 260 PUSH-TO-TEST INDICATORS, DOUBLE LAMPHOLDER WITH MINIATURE BAYONET BASES. 1¾"wX¾"hX2⅜"D. NEW. CHOOSE FROM THESE LENS INSCRIPTIONS:
POWER SUPPLIES , 28 VDC.
$1 EA, 3/$2

KORRY 260 indicators with rocket launch-related inscriptions: UNLOCK, TESTING COMPONENTS TEST POWER ON, HEATER 1-2-3, CENTER, LN OVERFLOW, IGNITER LINKS LN UPPER LEVEL, 100% LIQ OXY, LIQ OXYGEN FINE, FUEL TANK PRESSURIZED, COOLANT FILL, 40 C THERMOSTAT, NOSE CONE BATTERES LOX THROT VALAVE HEATER.
Price: 75¢ ea or 4 for $2.

ASSORTMENT OF ROCKET LAUNCH INDICATORS, NO CHOICE, 6/$2

KORRY 136 PUSH-TO-TEST INDICATORS, SINGLE LAMPHOLDER WITH MINIATURE BAYONET BASE ¾"wX¾"hX2⅛"D. INSCRIPTIONS:
LOW; MALF. 65¢ 2/$1.

KORRY 103 INDICATOR, PUSH-ON RED PLASTIC CAP; PLASTIC BODY. 5/8" SINGLE HOLE MOUNT. #5167, 50¢ EA. 3/$1.

LAMP HOLDERS FOR 327 LAMPS ⅜" HOLE MTG.
FLAT TOP LENSE 3/8 DEEP, WHITE LENS NUMBERED 1 TO 9, YELLOW ("MAX"), SPECIFY.
#6210-617-0934, 39¢ EA.
#327 LAMP FOR ABOVE, 39¢
TINY 28 V NEON INDICATORS, 1-3/8" long X 3/8" dia; NEW
#3495 clear lens w/"B" 3/$1
#3496 " " w/"7" 3/$1
OBLONG SLIP IN TYPE NEON 1/2x1-3/8" 125v. #3100 USED
ALL ABOVE 3 FOR $1.00

SUB-MINIATURE NEON PILOT LIGHT ASSEMBLY. FLUTED 5/16" DIA. CLEAR JEWEL. BASE IS FEMALE PART FOR A THREE PRONG PLUG WITH 1/16" DIA. HOLES IN ISOSCELES TRI ANGLE PATTERN. MOUNTS IN 3/8" HOLE. 0" TO 3/8" SURFACE CLEARANCE. 1 3/8"LONG. INCLUDES BULB. USED. 110v.
PIL007 $.25 5/$1.00

SUB-MINI DIMMER LIGHT with green jewel; T1-3/4 single contact bulb required. 1-3/8" lg; mount in 7/16" dia hole. #5221/0673, $.65

PILOT LIGHT for single contact mini-bayonet bulb. Clear smooth stovepipe 5/8" dia jewel; o/a 2-1/8" long. Less bulb. #PIL008, $.50

PILOT LIGHT similar to #PIL008 except 1/2" dia smooth red jewel (not "stovepipe") #86-1179, $.50

LARGE DIMMER PILOT LIGHT for double contact candelabra bayonet bulb; 1" dia white smooth white jewel. O/a 3" long; fits in 1" dia hole. #504-1632, new, $.75

PILOT LIGHT for single contact candelabra bayonet bulb; 1" dia red-faceted jewel. O/a 2-3/4" lg; for 1" dia hole. #PIL003, $.39

PILOT LIGHT for single contact mini-bayonet bulb; 1/2 dia bulb. 2" lg; mounts in 5/8" dia hole. #PIL004 $.50

PILOT LIGHT JEWELS, ⅛" dia for ⅜" dia threaded assy. Asst colors. Series-F 6/$1

WHITE SWITCHBOARD JEWELS, 3/8" dia. #4C1971, 10/$1.

PHELPS-DODGE MAGNET WIRE, 31 AWG on 9 to 10 lbs spools; approx 20000 ft/spool. #PD-MW-31, $2.40 per lb X spool wt.

ESSEX 37 AWG MAGNET WIRE, 2 lbs/spool; approx 5K ft. #61211FQ, NEW, ~~$10.95~~ $8.50

LIGHT INDICATOR FUSEHOLDERS f/3AG fuses; 1.6"D behind panel. O/a 2.9"L; used: #FU-HKX, 22-33 V amber, $2. #FU-HKL, 90-250 V clear $1.

INDUCTORS

FERRITE POT CORE INDUCTORS, PC mount; 7/8x⅜" dia. NEW.
123-177 mH, #NV243, $1.50
600 mH, #404-3-2, $1.50

TELEPHONE PICK UP COIL used in modem data coupler; no specs. 5/8x1½ dia #403-4 $1

COMMAND XMITTER ANTENNA COIL for 5.3-9.1 MHz range. 24 turns wire around 2" dia X 3" ceramic form; with mount brackets but no contacts. #6035MB $6.

CERAMIC COIL FORM, f/ART-13 xmitter; grooved f/43 turns #14 wire. Vertical mt; 5"Lx 2.5x2. #L113/ART13, $2.00

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BC-348Q RECEIVER IF COILS

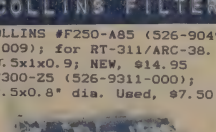
2nd IF 9A1953 #148 3.00

100 W LO-PASS

100 WATT LOW PASS FILTER for commercial transceivers; sharp cut-off approx 40 MHz 5.5x2x1.3 aluminum box with two SO-239. #LPF-40M, $5.95

COLLINS FILTER

COLLINS #F250-A85 (526-9049-009); for RT-311/ARC-38. 3.5x1x0.9; NEW, $14.95
#F300-25 (526-9311-000); 3.5x0.8" dia. Used, $7.50



COLLINS CHANNEL MODEM CIRCUIT BOARDS each with two 6"x1" dia mechanical filters plus other parts such as transformers, chokes, pots, etc. 9.5x6, 2#. Used:
#522-5247 w/two F84-28 (526-5249) filters, $6.95
#522-5252 w/two F64-28 (526-9454) filters, $7.95

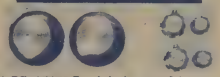
FLUTED KNOBS

TCS SPIN KNOB & CRANK, 1-5/8" dia fluted knob w/ 7/8" crank extension; ¾" high handle. $1.50

LUXITROL KNOB, 2-3/8" dia. w/pointer; fits 3/8" dia. shaft, $1.50

ARMY SPIN KNOB, retractable crank f/beveled top-screw shaft. 1.5" dia; for RT-70 or GRC-106. #2313, NEW, $5.

ALCO KNOBS



ALCO KNOBS, high quality, modern fluted knobs with brushed aluminum inset; fit 1/4" dia shaft. NEW:
#AL-KN20, 2" dixO.8"H $1.50
#AL-KN8P, 0.8" dia x0.5" H; pointer, f/slot shaft $.45
#AL-KN6, 0.6" dia x 0.4"H for 3/16" shaft, 4/$1.00

* * * * * * * * * * * * *

ALCO KNOB KIT #2, includes 2 ea AL-KN20 & KN6; 4 ea AL-KN8P. #2-AL-KNT, $3.25

AUDIO KNOB SET five aluminum 0.7" dia x0.8"h ribbed knobs f/ 1/4" slot shaft
#KT-7100, NEW, $2.50/set

DUAL CONTROL KNOB SET, lower 0.9" dia x 0.7"h section takes 1/4" dia shaft; upper 0.7"dia x 0.7"h knob takes 3/16" shaft. #DC-KN-ST, NEW $1.25

#KN757, Single knob matches DC-KN-ST; 0.7" dia x 3/4"h for 1/4 shaft, used, 2/$1.

SPIN KNOBS

2" DIA. METAL FLUTED SPIN KNOB FOR 5/32" SHAFT.
KNBN009 $.79

2¼" DIA. SPIN KNOB. METAL. TAKES 3/16" SHAFT.
#8089 NEW $2.00

MAKE ANY FLAT KNOB A SPIN 1¾" ADAPTER WITH 3 HOLES, TO FASTEN TO YOUR KNOB, WITH SPIN GRIPPER #2Z5816-3 $1.00

1-5/8" DIA. METAL SPIN KNOB F/⅜" SHAFT. URC#KN02, $1.50

1¾" DIA. FLUTED KNOB W/1¾" SKIRT; BRASS INSERT FOR 3/8" SHAFT. URC#KN04, $.50

1-5/8" DIA. FLUTED KNOB W/ 2" SKIRT; BRASS INSERT FOR 3/8" SHAFT. URC#KN03, $.75

Brown 1" dia x ½" high knob for ¼" shft. #KNB025, 2/25¢

EQUIPMENT HANDLE, 4.1x1.4"h f/#8-32 screws; black, aluminum, 2/$1

MATCHED KNOBS, rounded edge w/4 sets of 4 hash ridges. Looks like old Hammarlund. #E5168 2½" $3 #E5570 1½" $2

HALLICRAFTERS with big 1½" dia; arrow & grip bar. #H61014 new $1.50

BAR TYPE KNOBS

BAR TYPE BAKELITE KNOB FOR ¼" SHAFT. 1¾"x½"x5/8". SET SCREW TYPE.
KNBN012 $.25

GRC KNOBS f/Army radio sets fit beveled top screw shaft OD green; 7/8" dia skirts:
#KN-GRC-10, 1"L grip, $.50
#KN-GRC-14, 1.4" grip $.75

RECTANGULAR BAR TYPE BAKELITE KNOB 1¾"x½"x5/8". WITH BRASS INSERT FOR ¼" SHAFT. SET SCREW TYPE.
KNBN014 $.25

Pointer knob with brass insert for ¼" shaft; 1¾x1x½.
#KNBNQ26 25¢ ea

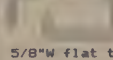
Bartype bakelite knob with pointer. For 1/8" shaft; vertical set screw. 1½"x5/8"x⅜".
KNBN016 4/$1.00

Rounded bar style knob, 1-1/8" long x ¾" across x 11/16 H. Brass insert f/ ¼" dia sh. #KNART13 3/$1.

1" dia. x 11/16" high knob; Ribbed style; Insert recessed ¼" from base for flush fit. KNB2279, 30¢ ea.

1-5/8" dia plastic knob with 2½" dia aluminum skirt calibrated 0 to 10. Brass insert for ¼" dia shaft.
#9414 NEW $.50 ea

1" dia plastic knob with 1½" dia skirt calibrated alphabetically A-B-,,,Y-Z. Aluminum skirt; f/¼" shaft.
#5312 NEW $.50 ea



EQUIPMENT HANDLES brushed aluminum 5/8"W flat top. 2"Hx5.3"L; 8-32 tapped. Amatom mfg.; #ALH-5-2, NEW, $3 per pair.

FLUTED 2-3/8" dia knob with 3" dia skirt; brass insert for 3/8" dia shaft; black.
#KNB-863233, $2.00

FLUTED 1-1/2" dia knob with 2" dia skirt; brass insert for 1/4" dia shaft; black.
#KNB-862152, $1.00

2" TUNING KNOB black w/chrome-finish trim. Metal insert f/¼" d shft. #ROB-B/C $1.25

MINIATURE LAMPS

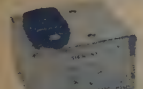
STK #	TYPE	V.	A.	BASE	BULB	EA	Per 10
#14 flashlight		2.47	.3	cand sc	G-3½	.30	$2.00
#382		14	.08	min flanged	T-1¾	.35	2.50
#327 grain of wheat		28 v	0.04 a		T-1¾	.39	3.00
#511		2	.25	min sc	G-6	.20	1.00
1004 auto type		12	.94	DC bay	B-6	.25	1.50
NE-48/991 neon		115	.25	DC bay	T-4½	1.50	12.00
NE-51 neon		115	.25	min bay	T-3¼	.40	3.00
#24-68M		24	.68	DC bay	B-6	.25	1.50

SEALED BEAM

MARINE TYPE 600 WATT 28 VOLT GE Q600 PAR 56/1 SCREW TERMINALS
PRICE: $6.00 EA.
WRITE FOR 100 LOT PRICE.

GRIMES LAMP ASSY. #4725-24 WITH 327 GRAIN/WHEAT BULB.
6220-333-5827
59¢ EA. 2 FOR $1

LINE FILTERS



RF LINE FILTERS, unused.
* * * * * * * * * * * *
SIEMANS #B84104K, 3 amp 115/230 VAC 60 Hz; plug & lead connect. 1½x2½x2, 1 lb. $1.

#410-3, 2x5 amps 125/250 VAC 50-400 Hz; four solder terminals. 2x2½x1¼, 1 lb. $1.25 ea.

#NF-10869-208, 2 x 10 amp 250 VAC 50/60 Hz; 2.3x3.9x2, 1 lb. "Spike" protector! $2.95

Cornell-Dubilier #NF10342-2, 190 amps 50 VDC; lug terminals. 4.8x3.5x3, 4 lbs sh; $8.95

#537-6615, 55 amps 30 VDC; two stud terminals. 2¼x5x2, 3 lbs sh wt. $2.95

HORN

FARADAY 48 VDC 100 ma HORN, made for Bell Telephone; makes loud, penetrating sound w/screwdriver volume adjust. Steel construction; recess mount. Front size 4x4x1.25; 1.25" panel depth. 3 lbs sh. #KS-12037L2, NEW, $5.95

SPRAGUE JN17-495082 4x30 AMP 277/480 VAC, 4x4x4.75 plus lug length; 6 lbs sh, ~~$12.95~~ $10.00

CORCOM #F2609 2x20 amp 115/230 VAC 50-60 Hz; 5"Lx1.5"Hx4"W, 2 lbs. NEW, $5.95

EQUIPMENT GLIDES

EQUIPMENT GLIDES military quality 2"W x 18"L chassis slides have 21" travel; load rating approx 100 lbs.
6 lbs sh; #GL-1821, used, ~~$10~~ $7.50 per pair.

ADJUSTABLE ALUMINUM SHOCK-MOUNT WITH FOUR 1½-3 LBS. SHOCKMOUNTS. PERFECT FOR SMALL POWER SUPPLY, AMPLIFIER OR OTHER GEAR. FITS 5-1/8"W X 6¾" TO 7¾" DEEP UNIT; 2" HIGH. SH WT: 3 LBS. #MT-569A/ARA, UNUSED, $2.50

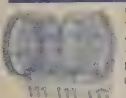
NATIONAL HRO COILS

Individual coils for HRO receiver coil set plug-ins. Unused, $2.50 ea; 4/$8.00

* * * * * * * * * * * * *

KHz			
50-100:	E111		
100-200:	B139	E110	B140
175-400:	B113		
2-4 MHz:	B123		
7-14 " :	B131		

XMITTER COILS



used in 400 W transmitters; 4.5" dia. T-4 type has nine banana jacks; C-type five jacks. Used/unused as available; 2 lbs:

#T4-1540,	2.0-3.5	MHz,	$5.
1548,	5.2-7.2	" ,	$5.
1549,	7.2-9.2	" ,	$5.
#C-454,	1.5-2.0	" ,	$5.
-388A,	3.5-4.5	" ,	$5.
-389A,	3.5-5.7	" ,	$5.
-447B,	8.0-11	" ,	$6.

CERAMIC COIL BASE

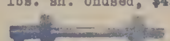
for above #C-coils; 5-banana jacks, two stand-offs. 7.3"L. #C-BS/610, used, $4.

TCS Rx NOISE LIMITER KIT w/ 12H6, ceramic switch, resistor & capacitor. NEW, $3.00

TRAVELING WAVE TUBE

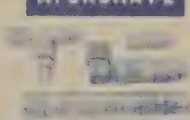
EMI 7640 TWT, similar to Hughes 313H; 2.0-4.0 Ghz, 1 KW output, 30 db. 16⅛x3¾ x5; 20 lbs. sh. Sold as an experimenter's item only; not guaranteed. $17.50

ITT D-2013 CW TWT, 5 watts 33 db gain, 8.0-9.6 Ghz; 6.3 v. heater. 12x1⅛" dia. 3 lbs. sh. Unused, $45.00



RCA 4012/A1157 TWT, 2.0-4.0 Ghz, 36 db min., 20 MW min. 15½"l x 3½"h x 1½"w. 4 lbs. sh. Unused, $40.00

MICROWAVE



MICROWAVE DEVICES, used:
SPERRY #D4402-2 ISOLATOR 4.4-5.0 GHz 1 db insertion loss; 15 db min isolation. N male & female conn. $14.
MICROLAB #HR-50N DC IN-BLOCK, 2-8.5 GHz, $7.95
MICROLAB #HZ-10T SIGNAL SAMPLER, 50 MHz-12 GHz; reactive T-adapter TNC (m) to TNC (f) to BNC (f), $8.
MICROLAB #TA-5MT TNC (m) 50 ohm termination, $6.00
MICROLAB #HA-A64 HIGH PASS FILTER, 2 GHz, unused, $12

TCS VARIABLE CAPACITOR, 2 SEC. 10-360 MMF, ONE SEC 10-360 MMF, 3 BAND CALIBRATED DIAL 4" 1.5 TO 12 MHz SIZE: 7x3½x3½; WT: 10 LBS. #881 $3.95 USED

SINGLE SECTION 11-67 pf .05" spacing. Has three front mount spacers for #6 screws Shaft 3/8x¼" dia; o/a 3¼x 1-7/8x2¾. #3D9067VE8 $3.95

RBF-3-14A164, 10-40mmf gap 0.04". 2Xv.3½x2¾x2 $2.95

HAMMARLUND VAR. CAPACITOR 20-90 pf 0.05" spacing. Silver-plated, 0.04" thick plates. Right angle worm and split gear drive. Shaft ½" x ¼" dia. 4½x3½x3¾ #446-6571 $9.95

VARIABLE CAPACITORS, removed f/ T-195/GRC transmitter.
#C-222/T-195, 25-485 pf one sec. ; 23-437 pf the other. 0.03" air gap. With gears 1⅛" dia. and 5/8" d. 4½x3x4¼ overall. $4.95
#C-221/T-195, 13.5-77.8 pf one section; 17-99.6 pf the other. 0.094" air gap. ¾"x ¼" dia. shaft. 5¼x1⅛x3¼ overall, 2 lbs sh. $3.95

THREE GANG, 15-85 pf/gang 0.03" gap; 3¼x1-5/8x4¾. #074-049 unused $4.95

3-GANG, 15-160 pf/section, 0.02 air gap; ¼" dia shaft 1¼x4⅛x1½. #3TH160, $3.95

BC-624 RECEIVER R.F. TUNER ASSY 100 - 156 MHZ A.M. W/VARIABLE CAP., COILS, TUBE SOCKETS. OSC. SEC. P/O SCR-522 5x5x5; WT: 7LBS 2ZK11150 USED $3.95/N $5.95

2-GANG 6-16 pf/gang 0.05" gap. Silver-plated with brass gears; p/o TS-497 sig generator. 7/8x5/16" dia shaft; o/a 4x2-3/8x3. #3330-313, unused, $5.95

XMITTER TRIMMER, 8-40 pf 0.05" gap; SCD-adjust. O/a 2x1.2x1.6; #366-840, $2.50

2-GANG, one 15-140 pf, one 15-95 pf, 500 V; 1.3x1.3x1 #330V020H01. used, $1.25

TUNING CAPACITOR F/RT-176/ PRC-10, 38 TO 54.9 MHZ; 5-GANG, 5-33 PF/ GANG. WITH 1½" AND 5/8" DIA. GEARS; 3/16" DIA SHFT. 1½x1-5/8x4, USED, $4.95

TUNING COILS

PLUG-IN TUNING COIL SETS for RU-18 & -19 receivers; 3 lbs sh. Unused:

RANGE	D,	850-1330 KHz,	$10.
"	E,	1330-2040 KHz,	$9.
"	H,	4000-6000 KHz,	$8.
"	K,	9050-13575 KHz	$7.

TRANS. CAPS.

DUAL 4-30 MMF 1000 VDC 1½x 1½x2, SHAFT ¼x¾ P/O BC-640 CARDWELL 430/1M REM $2.95

DUAL 5-25 MMF 2000 VDC 1½x 1½x4½ SHAFT ¼x¾ P/O BC-640 CARDWELL 525/2M REM $3.95

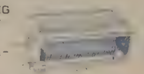
DUAL 4-20 MMF 2000 VDC 1½x 1½x3 SHAFT ¼x¾ P/O BC-640 CARDWELL 420/2M REM $3.95

Single 12-65 pf, 0.06" gap; 3/8x¼" dia shaft, o/a 3¼x 1¼x2¾. #CARD-427B NEW $5.

BC-624/522 RECEIVER, 3 GANG 6-36 MMF EACH SECTION WITH SLUG TUNED TRIM. SHAFT 5/16 STK#3D9036V SIZE: 4½x2x3¼; 1 LB. $1.50

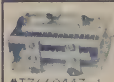
Single 7-26.3 pf, 0.06" air gap; shaft ¼x¼ dia, o/a 2x2x1¼. #C227/T235, $2.95

DUAL 6-22 MMF 1500 VDC 1x1½ x2¾ SHAFT 3/16x¼ TELERADIO 622/15M NEW $1.95



SINGLE GANG 20-400 pf 0.02" gap; ceramic insulated. 3/4x1/4" d-shaft; o/a 4x1.6 x1.8. #C1003/T195, used $6.

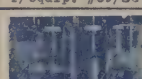
MILLEN NEUTRALIZING CAPACITOR, 2-gang, each 7 - 25 pf; 0.0625" spacing. 1/2"L x1/4" dia shaft; o/a 4.3x2 x1.5. #23925, NEW, $4.50



AIR VARIABLE CAPACITORS from BC-191 tuning units; 0.06" air gap:
#T7660443-1 19-116 pf; 3.8x3 x1.8, 1/4" dia shaft, $4.95
#P7761569-3 11-66 pf 3.3x2.8 x2.3, 1/4" dia shaft, $3.95
#P7761569-5 15-77 pf 3.3x2.8 x2.3, 1/4" dia shaft, $4.50

#T7660443-8, 8-26 pf, 5/8"x 1/4" dia shaft; O/a 1.8x 2.8x3, 2 lbs. Used, $3.95

PRECISION TANK TUNE CAPACITOR 25-220 pf w/right angle worm gear reduction tuning, 0.03" spacing; 1"x¼"dia shft, o/a 4⅛x2¾x3½. Remove f/equip. #C9/SG-15, $8.00



TU-53 OSCILLATOR ASSY. FOR BC-610 TRANSMITTER FREQ. RANGE 8-12 MHZ. CONTAINS VAR. CAPACITORS WITH SHAFTS 140 MMFD, 190 MMFD. 2/CERAMIC CAP. 1/MICA CAP. 4/R.F. COILS, 2/RES. 1/DPDT switch, dial, and two knobs Rear plugs are broken. 2x8½ x4½, 4 lbs sh. Used, $3.95

MAB TRANSCEIVER uses single xtal channel in 2.3 to 4.5 MHz range, 200 MW output. In waterproof black plastic case; mic and headset cut-off and not available. With tubes 3/3S4, 2/1T4, 1R5, & 1S5. Requires 67.5 VDC 3 ma 135 VDC 19 ma, 1.5 V 30 ma. 8.8x2.8x7.8; 8 lbs sh. Used-AS-IS with book, $6.95

RECEIVER STYLE VARIABLE CAPACITORS, 500 V spacing; 1/4" dia shaft. 4x1.8x1.5, 1 lb
2-GANG, 18-90 & 10-275 pf; 2"L shaft. #97400, $2.95
3-GANG, 2/20-365 pf & 17-175 pf; #5740, $4.50
1-GANG, 15-325 pf; 1.4x1.4 x1.3. #512-001, $2.50
2-GANG, 25-90 & 40-210 pf; 1.3x1.3x1.5. #900229, $2.

#66972, 2-gang, 9-50 pf @ 10-100 pf; 1x1x3/4, $1.25

#074-050J-2, 8-20 pf 3/4x 1/4" dia shaft, $1.25

Dual 5-15mmf, ceramic, w/friction gear to hold setting. 0.04"spacing. 2½x1¾x1-7/8 in ¼x¾in dia shaft. coil& gear removeable. #358-3164 $1.95

#KS21146L1, 3-GANG, 7-60 PF/SEC. 0.03" GAP. O/A 5¼x1¾x1¾, $3.95

GLASS PISTON CAPACITOR #VC-306, 30 pf, 2x1/4", $1.

#3D9025V-99 TRIMMER, 3.5 to 25 pf; 1.5"L x 0.25" dia shaft; o/a 2.3x1x1.3, $1.25

SINGLE 10-100 pf, 0.02" gap; ⅛x¼" dia shaft, o/a 2¼x1¼x1¾. #3D9100V $1.95

AIR PADDER CAP

ALL PADDER CAPS. REQUIRE SCREW-DRIVER ADJUST.

351-1054	2-8 PF	49¢
ES614138	4-18 pf	$.60
657-J3	8-55 pf	79¢
SBL72265-2	8-32 pf	59¢
3D9011V-7	5-14 pf silver-plated Hammarlund,	89¢

#C2/R174, 5-42 pf trimmer; 1x1/4"d sh, 1.5x1.3x1.5, $1

#C653/R174, 2-11 pf screw-driver adj; ¾x⅛x¼, $.50

#3D9006V-7 DIFFERENTIAL, 3-6 PF, .045" GAP; 1½x1x2, 1¼x¼" D. SHAFT. NEW, $1.95

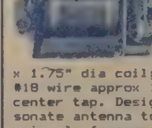
JOHNSON #160-102 TRIMMER. 1.5-5.1 pf; 3/16" shft $.75

SINGLE GANG 20-245 pf 0.035" gap; gold-plated rotor/stator. 1x1/4" dia shaft; o/a 3x1.8 x2.5. #C107/778, used $6.95

COMMAND RECEIVER VARIABLE CAPACITORS, 3-GANG, TRIMMERS & GEARS. 2¼x3x4½; 3 LB.

#6558, 62 PF, 6-9 MHZ, $4.

JOHNSON "M" SERIES, 3/16" dia slotted shaft; o/a 1-5/8x3/4x5/8. Used:
#160-130/30m8, 3 to 32 pf, 28 plates, $1.25



ROLLER INDUCTOR ASSEMBLY with 115 VAC 400 Hz motor drive, 3.4" lg x 1.75" dia coil; 28 turns #18 wire approx 14 uH with center tap. Designed to resonate antenna to a transceiver's frequency. 4.5x 2.8x3.8, 5 lbs; used. #T301/CU-991, ~~$14.95~~ $12.

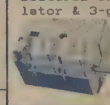
1820-2520 MHZ

PRESELECTOR, two separate cavities having 21 Mhz band width and 3 db insert loss @ 1715 Mhz. 1N21B crystal mixer 120 Mhz output from 1820-2520 Mhz injection. "C" and "BNC" connect. 9½x x3½x3½ 4 lb #PRE/TRC29 $20.

#3CPR/TRC29 TRIPLE COUPLER which fed P-A. 36 db and 65 db RF outputs; DC output for P-A meter. 4 "C" connections and one 1N21 connector. 5½x2½x1¼ $7.50

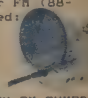
H-K FM TUNERS

HARMON-KARDEN FM TUNERS with AM capacitors--no AM component. 75 ant, 300 IF jacks. 1/4" dia shaft; 2 lbs sh.
#00331591A, two MOSFET RF, MOSFET mixer, 2-transistor oscillator; 3:1 gear. Requires 13 VDC; 4.8x2x4.8. NEW, w/info, ~~$9.95~~ $7.95
#00234229 (Alps), similar features except IC oscillator & 3-gang capacitor; 5.5x2.5x3.3. NEW ~~$7.95~~ $7.



#FB113U13 (Alps), one FET two transistor oscillator; req -12 V; 3.5x 2.3x2.8. NEW ~~$4.95~~ $3.50

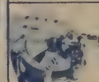
OLDER-STYLE TV TUNERS, AM (550-1600 KHz) or FM (88-108 MHz) as listed:



AM-FM TUNER w/ 12DT8 tube and dial; 3x2x3, 2 lbs. #2H02, $5.

HEATH FM TUNER with 3-gang variable capacitor approx 40 pf/sec. 2.4x1.5 x2.5, 1 lb sh. #110-30, NEW $5.00

HEATH #110-39 SOLID-STATE FM TUNER, 3.8x3.3x1.5, $4.95

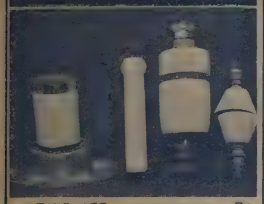


LC-902 ANTENNA INPUT TANK for TN-2A/APR-1 tuner for 76-300 MHz W/variable capacitor, coil, & 955 tube socket. 4.5x3, 4#. $5.
LC-701 300-1000 MHz OSC, $5

OUTPUT NETWORK

OUTPUT NETWORK part of ART-13 xmitter; designed for 200 pf capacitor & L112 variometer to provide Pi and L matching for 813 tube. 57 uHy coil tapped 2-6-15-24-34 uHy, coil tap switch, and 7-Centralab 850 HV caps 25 pf, 3/50 pf, 3/67 pf. 5.5x8x3.5, 7 lbs sh. #ONET/ART-13, used, $12.00

INSULATORS

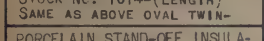


STAND-OFF, CROWS FOOT, 7" Hx1¼ D.CAST BASE, 2½ CTRS. TOP CAST w/3/16"-20 SCREW #5970-405-8992 $4.00
SIMILAR, ABOVE 3" 3.00

FEED -THRU INSULATOR (FIG2 1/2" HOLE 7/8" DIA. W/NECK 3" LONG 30¢
6" LONG 50¢ 8" LONG 60¢
STOCK No. 1014-(LENGTH)
SAME AS ABOVE OVAL TWIN-

PORCELAIN STAND-OFF INSULATORS, SCREW THREADED.
#P-4H-.75D, 8-24 THRD, $.50
#P-5H-.75D, 8-24 THRD, .65
#P-6.75H-1D, 10-24 THR, .85

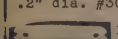
JOHNSON THRU-PANEL BUSHING INSULATOR, two 0.8"Hx1.3" dia ceramic cones with 2.9" long screw & hardware. NEW: #135-0051, $1.25 ea; 10/$10



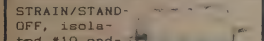
14" LONG SPREADER INSULATOR brown porcelain 14x1.3x1; 3 lbs sh. #3G1100-192, $2.75

SPREADER, brown porcelain 8.5"Lx1.8"Hx1"D reinforced 0.5" dia hole on ends; 3#. #SPI-85181, $1.95; 2/$3.

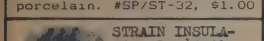
GLASS-BONDED MICALEX STRIPS 10"Lx1"Wx5/8"Th. Five holes .2" dia. #3G110-160, $1.50



IN-88 SPREADER INSULATOR, 2.5"L x0.5" dia; 1/16" holes 4/$1

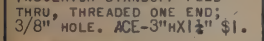


STRAIN/STAND-OFF, isolated #10 end-bolts (1.4" & 0.6" L); 3"Lx2" dia white porcelain. #SP/ST-32, $1.00



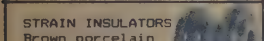
STRAIN INSULATOR, 3x2¼" dia; ⅜" to ½" dia taper feed-thru core. 1 lb sh, #STR-84 $.95

INSULATOR STANDOFF FEED-THRU, THREADED ONE END; 3/8" HOLE. ACE-3"HX1¼" $1.



STRAIN INSULATOR, 4¾x2¾" dia; 1" dia core feed-thru 1 lb. #3TR-1610, $1.95 ea

STRAIN INSULATORS Brown porcelain 2.1"H x 2.3" dia with 0.7" dia center hole; 1 lb. #STI-2123D, $.65 ea; 4/$2.



KNIFE SWITCHES, unused:
#KNSW-04, DPST on 1.8x1.5 x0.4" ceramic base. $1.75
#KNSW-02, SPDT on 1.3x0.5 x0.1" phenolic base, $.65

7" DIA PORCELAIN BOWL INSULATOR with mount hardware Plastic insert on top has 3/16" dia hole; can be drilled to 5/8" dia. #7D-BI, $4.95

STAND-OFF'S

STAND-OFF INSULATORS, CROWS FEET TYPE. BRASS AND PLATED BRASS BASES AND TERMINALS.

D=DIAMETER
H=HEIGHTH
M=MOUNT BASE HOLES' CENTER DISTANCES
ST=SCREW TERMINALS
CT=CLAMP TERMINALS

#B-H3-D1.25-ST3, BROWN CERAMIC; M=2.25". TERM. CAP SIZE: 7/8x1-5/8" DIA. SHPG. WT: 2 LBS. $2.75
#B-H4-D1.25-ST2, WHITE; M-2.25". TERM CAP: 1x1-5/8" DIA. 3 LBS. $3.25
#XW-H5-D1-ST, WHITE; M-2.25 TERM CAP: ½x1" DIA. $3.00
#W-H5-D1.25-ST, WHITE; M-2.625". TERM CAP: 3/8x1½" DIA. 3 LBS. $3.75
#B-H5-D1.25-CT, WHITE; M-2.25". TERM CAP: 1x1-5/8" DIA. 3 LBS. $4.00
#BL-H6-D1.25-ST2, BLACK PAINT ON BRASS; M-2.625" TERM CAP: 1¼x1½" DIA. SHPG. WT: 4 LBS. $4.25
#B-H8-D1.25-ST2, brown; M-2.625". Term cap 1x1¼" dia; 3 lbs sh. $5.50
QUANTITY DISCOUNTS on stand-offs! 10-25 ea (1-type) 20% OFF; 25% (26-99), 30% (100+)

FLEXIBLE COUPLING

CERAMIC FLEX COUPLING, 1.3"x1.3" X-style for 1/4" dia shaft. COUN012, $.75

1" dia coupling for 1/4" dia shafts; #COUN013, $.65

#COUN008; 2-5/8"dia x 2", for 3/8" dia shft. 79¢ ea

#COUN009; 2X2 CERAMIC COUPLING for 3/8 dia shaft. 69¢ ea

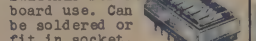
#COUN010; 3⅛" dia x 1¼", for 3/8" dia shft. $1.25

AC LINE CORDS

3-COND. GROUNDED equipment cord, 8' #18 wire. Molded plug; black. #FW-3CG $1.25
3-COND #14 wire, 6 ft gray w/molded plug. #W14-66, $2.
3-COND w/business machine plug, fits most Hewlett-Packard equip. Without AC plug; 5½'. #HP-3CG $1.50
3-BLADE cord w/AC plug for newer H-P & business equip; 6' black. #HP-NS, NEW $2.50

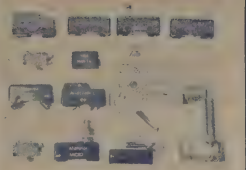
More DOLLAR-DAZE:
13 TOGGLE SWITCHES, SPST cut-offs, 5/$1.00
SLIDE SWITCHES, 2PDT and SPDT, 5/$1.00 16

SPST ROCKER DIP SWITCHES for PC board use. Can be soldered or fit in socket. Grayhill mfg. NEW #76JB04, 4 sw, $.75; 5/$3.



SELECTOR SWITCH 15 BUTTON, MAKE ONE BREAK ONE, RELAY RELEASES ALL BUTTONS WHEN ACTIVATED, 115 VAC OR 24VDC SIZE: 12¾x7½x2; WT: 7 LBS. URC#1524115 NEW $3.95

MICRO SWITCHES



SPST MICROSWITCHES 1-7/8x 5/8x1¼, 30¢ ea unless otherwise noted. Normally open-n.o. Norm closed-n.c.

#WHBT349A-1 n.o. lever

#YZ-3RLTC n.o. lever 15A

#SW-186 n.o. ext-pin

#WZ-R39 n.c. ext-pin

#2MC3-1A n.c. pin; 1-5/8x ⅝x⅜ size.

#V3-23 n.o or #V3-21 n.c. pin; 9/16x1x1-3/8 size.

MU-SWITCH Type D in split dye cast housing; ⅜" tap conduit hub. 17/8.5 amp 125/250 VAC, new, 75¢

SPDT, one side n.o./other n.o.; 1-7/8x5/8x1¼, 40¢ ea

#3Z-3R244T4, pin style

#WHBT349B-1, lever style

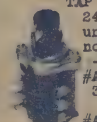
#BZ-2R, button w/mtg 50¢

#V3-1 9/16x1x3/8 size

C-H TRIGGER SWITCH, DPST norm open w/spring-loaded actuator; 12/6 A 125/250 VAC. #CH-TR-DP, NEW $2.50

MICRO-PLUNGER EXTENSION for 1.9"x0.6x1.3" Micro-switches. Plunger o/a 2.4"L; 1.6" threaded. #MCD5711, $.75

TAP SWITCHES



TAP SWITCHES, 120/240 VAC 10/5 amps unless otherwise noted; 2¾"d. Used.

#AHH-23-10; 2-deck 3-pos w/knob $2.

#AHH-230; 2-deck 3-pos and OFF. Cont. turn; 15/10 A. No knob; 3/16" d shft. $2.25

#AHH-33-10; 3-deck, 3-pos with knob, $2.50

#AHH-2W-3W 3-pos with OFF. 120/240 VAC 30/15 A (2-wire), 15/15 amp (3-wire). 1-7/8x 1¾x1½, 2 lbs sh. Used w/knob $2.50

6-POSITION CERAMIC TAP SWITCH for 100 W BC-375 xmitter; 2.3x2.3 x1.8, 1 lb. NEW #3Z9605 $3.95 ea 10 for $32. 100 for $265.

AC CORD

3-CONDUCTOR CORD, 8' #16 wire; grey moulded plug. #W16-3C $1.65
HEATER CORD type HSJ, 3-conductor 7.5' #16 wire; grey moulded R-A plug. #HSJ-16 $2

PUSH SWITCHES

DPST interlock n.o., (3Z-9825/254), #PSW006 65¢

SPST pull switch, normally open, #PSW007 35¢

SPST normally closed case ground; #PSW008 35¢

SPST normally closed, Grayhill #4002 50¢

2-BUTTON momentary; red breaks, black makes. 3⅛x 1-5/8x1-1/8; #RB-EM $1.50

MULTI PUSH

SWITCHCRAFT DW-Type, each section DPDT 3 amps AC; 0.5 A DC 125 V non-inductive. Can use T-1¼ size lamp. NEW
#67097-506, 9-button Push-on/Push-off; 1x6¼x1⅛ $7.75
#67091K-506, 9-button interlocked, $6.50
#67137-506, 13-button Push-on/Push-off; 8¾"W. $9.75
#67131K-506, 13-button interlocked, $7.95

WESTINGHOUSE THERMAL MAGNETIC TRIP UNIT, 3 poles 250 VDC 75 A normal; 450 - 525 trip amps @ 50 C ambient 150%-225% of rating. Type AGB-A100; 4.5x3.8x4, 5 lbs sh. #248-1371, NEW ~~$14.95~~ $11.

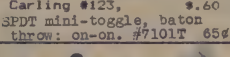
Cutler-Hammer MINI-TOGGLES, All 6 amp 120 VAC; NEW:

DPDT center-off $1.50 3/$4
3PDT on-on, $1.65, 3/$4.25
4PDT on-on, $1.75, 3/$4.50

SWITCHES

MINIATURE SWITCHES, all new. Black: blk. White: wh.

DPDT momentary, blk or wh button (a); C&K #8221 $.65
SPDT on-off-on, wh. toggle (b); Alco #MLD106E, 75¢
3PDT on-on, blk. rocker (c) JST #MR2-123, 65¢
SPDT on-on, blk. push-type Alco #MSP105D, 60¢
3PDT on-on 1-side momentary blk or wh push; CK8168 65¢
SPST black rocker; not mini Carling #123, $.60
SPDT mini-toggle, baton throw: on-on. #7101T 65¢



DPST one side mom. (f) toggle; Alco #CST-023TA, 2/$1

DPDT on-on slide (h), 6/$1.
DPST sub-mini slide switch; Chicago EIA 50, 5/$1.

TOGGLE SWITCHES

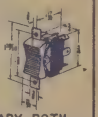
TOGGLE SWITCHES, some single hole mount, some with mount plate; NEW or REM (removed from equipment.

AIRCRAFT-type TOGGLES, two hole mount, illuminated tip
SPST new 5/125 B-15 .65
(momentary norm-closed)
SPDT new 5/125 B-9A .65
(ON-OFF-ON)
SPDT new 15/125 B-1B .75
DPST rem 30/125 C-1 1.25

INDUSTRIAL-type TOGGLES:
SPST rem 8/125 8817K2 .35
(above momentary)
SPDT rem 8/125 ST-42D .35
(ON-ON)
DPDT rem 5/125 ST-22R .35
(momentary)
DPST rem 10/125 ST-52K .40
DPDT rem 10/125 ST-52N .50
(ON-ON)
DPDT rem 10/125 ST-52R .50
(ON-ON momentary)
DPDT new 6/125 T-WB-87 .75
(ON-ON, 1" mount barrel, 1/2" dia white ball cap)
3PDT rem 10/125 8742K5 1.25
(ON-OFF-ON)
4PST rem 15/125 7661K5 1.00
4PDT rem ON-ON 34TS11-3 $1.

TEN PUSH SWITCH STRIP EACH D.P.D.T. INDIVIDUAL HOLD OR COLLECTIVE OR RELEASE, NEW 12x4x3/4; NO.4C5231 $2.25

ROCKER SWITCHES
0319 SPST
39¢ 3 FOR $1.00

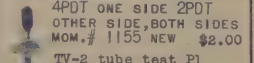


0348 DPDT
59¢ 2 FOR $1.00

0320 SPDT MOMENTARY BOTH SIDES. 65¢ EA. 2 FOR $1.20

PUSH BUTTON SELECTOR
WHITE BUTTONS, 1 THRU 4 SEPARATE CONTACTS, 5,6,7 MAKE 2,3,4 RESPECTIVELY W/ COMMON. RED BUTTON RELEASES ALL. RATED @ 120/240VAC 8/ SIZE: 4⅛x1½x2¼; WT: 2 LBS. GE#/SP8128-417 UNUSED $.75

LEVER SWITCHES



4PDT ONE SIDE 2PDT OTHER SIDE, BOTH SIDES MOM.# 1155 NEW $2.00

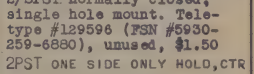
TV-2 tube test Pl lever sw; make 2-break 2. Removed $2.

2PDT ONE SIDE, OTHER 2 MAKE, P/O EE-2, USED $1.00

SPDT make before break and 2/SPST normally closed; single hole mount. Teletype #129596 (FSN #5930-259-6880), unused, $1.50

2PST ONE SIDE ONLY HOLD, CTR OFF, ONE HOLE MTG. SWITCHCRAFT 513148 NEW $1

200/400 AMP TAP



3PDT 400 A 600 VAC TAP SWITCH, no "OFF" position. 9.5x9x9, 25 lbs sh. #0279, NEW, $29.95

EQUIPMENT BLOWERS

18 VDC 2400 RPM 5-BLADE FAN removed from oscilloscopes; runs well on 6 VDC. 7" dia blade rotation; o/a 8¾"dia X 5½" depth. Includes eight single TO-3 heatsinks; 8 lbs sh. #B401/USM, used, $16.95

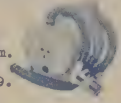
DUAL BLOWER, 3450 RPM 1/12 HP 115 VAC 60 Hz 1.1 A GE-motor; 3" inlet, 3½x2 outlet. W/capacitor; 11x6x6, 10 lbs. #GE-JG284 used $15.

TORRINGTON BLOWER, 200 CFM 220 V 3000 RPM (100 CFM 115 VAC 1500 RPM). 4" dia intake; 2¼x3 out. Outlet mtg 4" dia. O/A 7x7x7½, 10 lb Torrington #A13980, unused $18.95

EASTERN AIR TWO SPEED BLOWER, 2800/3200 RPM capacitor-start motor 1/40 HP 0.38 amp 115/230 VAC 50/60 Hz. Mounted on base w/4 mfd capacitor, terminal strips. Approx 150 CFM. Intake 3" dia, outlet 1⅝x2⅝. O/A 8⅝x11x6½, 14 lbs sh wt. EAD#B747M1-C, used, $12.95

FASCO DUAL BLOWER 50 C.F.M. 115 VAC 60 Hz 0.74 amp @ 2800 RPM. Outlets 2x1-5/8. One outlet is parallel to mounting base; other is at 90 , but can be modified as shown in picture. Inlets 2⅝"dia. Overall 7½x6x5½, 12 lbs sh. Fasco type 21, #127S217, unused, $10.00

5-BLADE COOLING FAN removed from military power supply; 4¼" dia rotation. 115 VAC 0.1 amp 3300 RPM; w/capacitor. 2¾"D. #FAN-2054, $4.50



BLOWER/VACUUM, 115 VAC solenoid reverses intake/outake allowing unit to work as blower or vacuum. 1¼" dia hoses; 6x8 dia, 12 lbs. #3M-CPB, $12. Less scelenoid, $9.

HOWARD 4.5" square 5-BLADE FAN, 5/8" deep aluminum cast frame; 115 VAC 19 watts. O/a depth 2-5/8"; used-removed from equipment. #1175-08, $7.95

4-BLADE 6" DIA FAN in conical 7½" to 5-3/8" dia X 7" high housing; 115 VAC 60 Hz. Adapt to use as duct fan. 8 lbs sh. #3M/4B-DF, used, $9.95

FAN-TYPE BLOWER, 115 VAC 60 Hz 20 watts; 4" plastic fan blades. Open frame low-noise motor in metal casement-type frame. Approximately 100 CFM. 13x5x2, 5 lbs sh. Howard #1075-3102, used, $4.50

HEATSINKS

Clean HEATSINKS, 10.3x4.5x1.3, NEW: #6T104F flat bottom; f/six TO-3, $4. #10D1041 f/7 .25"d /3-0.38"d diodes $3 #1D1041F flt-bot f/0.75"d diode $3.50 #2T1041F flt-bot; f/two TO-3, $3.75

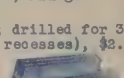
HEATSINK PANEL has four 10x2-7/8x1¼ heatsinks and six 2N3055's on 10½ x14 panel; 9 lbs sh. #HS-M32, $12.00

#WE-H1D HEATSINK w/diode approx 100 PIV 25 amp; 5x3x1¼. Used, $2.50

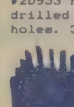
#DHS, ANODIZED DRILLED FOR DO-4 DIODES. 3-7/8x2⅜x1-1/8, 2 FOR $1.00

DUAL TO-36 HEATSINK, 3x3¾x1-3/8; flange mounting. #HST036, $.75 each

#3D523-8 HEATSINK, 5x3x1-9/16; drilled for 3 large stud rectifiers (1" dia recesses), $2.



#2D953 HEATSINK, 9x4.8x2.6, drilled with two 3/8" dia holes. 3 lbs sh. Unused, $4.25



SERIES 680 HEATSINKS, 1¼" sq. NEW #1.0G-5-5, 1" high with 0.35" dia. hole for rectifier, 85¢ ea. #.75A-16-1, 0.75" high for TO-3 transistor, 75¢ ea.

COMPACT AXIAL FANS

AXIAL FANS, 4¼" square X 1½" thick; 115 VAC 60 Hz. Removed from equipment; guaranteed.

Rotron MUFFIN® or similar; 3-blade 14W $7. 5-BLADE axial fan in metal frame; 18 watts. Various manufacturers, used, $9. PAPST #3124F 18 VDC 2 watt or 30 VDC 3 W FAN; 9-blades, 3.5 square x 1" deep, NEW, $10.

ROTRON BISCUIT or like fan, right angle 1x2' out-take; 115 VAC 60 Hz 16 W. ~~$12.95~~ $10.

SPRITE FAN

ROTRON MODEL SU2G7

Small 3.1" sq X 1.6"D size. Five blade plastic fan in die cast housing. 115 VAC 50/60 Hz 2 lbs sh. NEW, ~~$12.95~~ $9.95

FIVE BLADE COOLING FAN, 4-5/8" dia. rotation; no enclosure. Mounting bracket hole centers 5-7/8" apart. 115 VAC 60 Hz. 2 lbs. sh. Airtrol #11-2100, NEW, $4.95

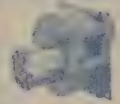
DUAL FANS

DUAL AXIAL FAN ASSEMBLY, one 3-blade 14 W Rotron Muffin and one 5-blade 18 W metal Howard Cyclohm 4.5" sq equipment fans on 11x6.8 metal plate. 115 VAC 60 Hz; 6 lbs sh. #2-AX-FN86, used-tested, $10.95

EQUIPMENT BLOWERS

200 CFM FASCO BLOWER, 115 VAC 60 Hz 2.2 amp @ 3200 RPM; motor speed increases to compensate for any reduction of air intake. 4.5" dia inlet; outlet 3x3.3. Flange mounting 4.8x4.8; o/a 8x8x8, 9 lbs. #50755-J448, used-good $10.95

100 CFM FASCO BLOWER, 115 VAC 60 Hz 1.0 amp @ 3100 RPM. 3-7/8" dia inlet; outlet 2.5" x2.5". Flange mounting 5.1x4; o/a 7.3x7.3x6, 7 lbs sh. #7021-0573, NEW, $12.95



150 CFM FASCO BLOWER, 115 VAC 60 Hz 1.5 amp 1/10 HP. 4.5" dia inlet; outlet 3.8"x3.4". Has 9.6x9.8 mount plate on intake side and motor start capacitor. Big blower --small price! 12#. #7082-0124, used, $9.

HOWARD #1175-08-4 BLOWER, 115 V 60 Hz 12 watts; intake and outtake each 7/8" dia. Suitable for quiet cooling/blowing uses. O/a 4½x3½x3¼, 2 lbs. w/hose, $8.95

10 INCH ROTRON FAN

ROTRON CARAVEL 10" FAN, 550 CFM free air delivery using 3-blade fan with special Feathered Edge for quiet operation. 3.5" deep aluminum housing; self-lubricating bearings. Operates on 220 VAC 60 Hz but will work on 115 VAC at 50% rating; 8 lbs sh. NEW, $24.95

HEATSINKS - HEATSINKS

ALUMINUM HEATSINKS, all bare; drilled for TO-3 transistors and/or diodes: #12T137Z, for 12/TO-3 and 6 small diodes; 12.8 x6.8x2.4. Vertical mount; 7 lbs sh, $9.95 #6T763, 6/TO-3; 6.8x6.3x2.4, vert-mt 4#, $5.

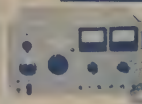
#2T351-4 with two 1/4" holes for transistors; 2.8x4.5x1.4 flat bottom, 1 lb, $1.50

H-P GENERATORS

HP-612A UHF GENERATOR, 450-1230 MHz AM, CW, or pulse in one band. Useful in UHF TV testing. Output: 0.1 uv to 0.5 V into 50 ohms. Internal modulation 400 or 1000 Hz; incidental FM less than 0.002% at 30% AM. Requires 115/230 VAC 50-400 Hz. 13.5x 16.5x21.5, 63 lbs sh. Used-reparable, $295.

HP-612AR GENERATOR, more recent rackmount version of above. Used-reparable, $350.00

50 KHZ TO 80 MHZ



HEWLETT-PACKARD 606A, 50 KHz to 60 MHz AM in six bands +/- 1%. Output: 0.1 uv to 3 volts into 50 ohms, vernier and step controlled. 400 or 100 Hz modulation; built-in crystal calibrator provides either 100 KHz or 1 MHz frequency check points. Other features include constant output and modulation and low distortion. 10.5x 19x13.5, 50 lbs. Used-reparable, ~~$275~~ $150. Checked $380 $225; CABINET f/606A, add $15.

H-P 400H VTVM

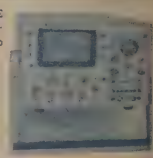
HEWLETT-PACKARD 400H VTVM with wide mirrored scale; 0.0001 to 300 Vrms in twelve ranges, -50 to +60 db. Response 10 Hz to 4 MHz; 23 lbs sh. Used-reparable, $45.00; Checked, $85.00 MANUAL, partial repro, $8.50

HP-410B VTVM, 20 Hz-700 MHz response; 0-300 Vrms, 0-1000 VDC, and Rx1 to Rx1 megohm. W/ AC probe. Reparable, $65. Checked $99.50
HP-410BR, rackmount 410B, reparable, $60. 410BR without probe harness, $25.00 MANUAL for 410B/ME-26, partial repro $8.50
HP-411A RF MILLIAMETER, 3 mv to 10 V over range of 0.5 to 1000 MHz; seven meter scales 0.01 thru 10 Vrms. With probe but no probe tip, reparable, $95.00 $79.50
HP-412A DC VOLTMETER, 1 mv-1000 V, 1 uA-1A, 1 ohm-1 Mohm. Reparable, $95. Checked $135.

HEWLETT-PACKARD TEST EQUIP, used-reparable:
HP-200AB 20 Hz-40 KHz OSCILLATOR, $50.00
HP-202A SINE-SQUARE WAVE GENERATOR, $40.00
HP-212A PULSE GENERATOR, $50.00
HP-650A TEST OSCILLATOR, 10 Hz-10 MHz, $95.

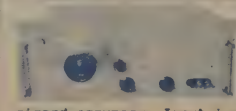
HP-5245L ELECTRONIC COUNTER, popular solid-state 7-digit plug-in counter with HP-5253 plug-in allowing frequency measurement upto 500 MHz. Wide variety of plug-ins offered by HP makes this a very versitile unit. Sensivity 100 mv; gate 1 usec to 10 sec in decade steps. Requires 115 VAC 60 Hz; 5.3x16.8x18.3; 36 lbs sh. Used-reparable w/book, $250.00

HP-5245L MAINFRAME only, usable to 50 MHz, used-reparable with book, $155.00
HP-5253 500 MHz plug-in, reparable, $125.00



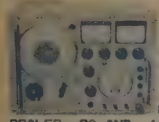
HP-1707B DC-75 MHz PORTABLE SCOPE, 10 mv to 5 V/div deflection in 9 ranges, sweep 0.1 us-2 sec in 23 steps; delay 0.1 us-2 sec. Rise-time 4.7 ns or less. Also x10 magnifier, beam finder, and 1 KHz squarewave calibrator. 115/230 VAC or 12-36 VDC power; 34 lbs sh. Used-checked w/book, $795.

HP-312A SELECTIVE VOLTMETER, 1 KHz-18 MHz, 200-100-3100 Hz bandwidths, 3 uV to 3 V ranges; digital readout. Reparable, $795.00
HP-313 TRACKING OSCILLATOR for HP-312A, $295
HP-8690A SWEEP GENERATOR mainframe, rep $400



HEWLETT-PACKARD 200CDR WIDE RANGE OSCILLATOR, rack-mount unit covers 5 Hz to 600 KHz in five decade ranges; +2% designed accuracy. Input impedance 600 ohms. Requires 115/230 VAC 50-1000 Hz. 7x19x14.5; 26 lbs sh. Used-reparable, ~~$85.00~~ $69.50

MARCONI FM



MARCONI TF1066B/1 SIGNAL GENERATOR, 10-470 MHz AM-FM in five bands; output 0.2 uv to 200 mv. Modulation 1 KHz or 5 KHz; FM deviation SCALES -20 AND -100 KHz. Requires 115 VAC 60 Hz; 14x19x9, 60 lbs. Used-reparable w/book rackmount, ~~$425~~ $375; add $15 for cabinet. TF1066B/6, similar to TF1066B/1 except has built-in 1 and 10 MHz crystal calibrator. **Used-reparable w/cabinet, $525.00**

TS-418/URM-49, 400-1000 Mhz AM, CW, pulse. Output: 0.2 to 200K uv into 50 ohms. 12⅜x17¾ x13⅜, 70 lbs sh. Used, reparable, $175.00

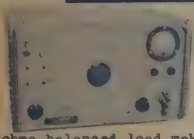
TS-419/URM-64, 900-2100 Mhz CW and pulse @ 1 MW max. into 50 ohms. Repetition rate between 40 and 4000 pulse/sec. Delay: 3 to 300 u-sec. 14x17⅜x11, 50 lbs sh. Used, reparable, $165.

AUDIO OSCILLATOR

TS-382*AUDIO OSCILLATOR, 20 Hz to 20 Khz in four bands. Output: 0 to 10 volts across 1000 ohms. With built-in 60 and 400 Hz reed frequency meter. Size: 10x12¾x18¾. Shpg. wt: 50 lbs. Net: 45 lbs. Price: Used, reparable, $49.50. Checked, $65.

TS-382F AUDIO OSCILLATOR, most recent version TS-382. Used, reparable, $60. Checked, $75.

TEST OSCILLATOR

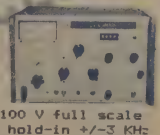


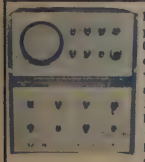
SG-71/FCC CARRIER TEST OSCILLATOR, similar to Hewlett-Packard 233A and used to check carrier current systems; 50 Hz to 500 Khz in four bands. High power output: 3 watts into 600 ohms balanced load makes test loops 100 to 200 miles long. 6 V 600 ohm output for audio tests. W/50 VDC output meter; provision for carrier modulation. Requires 115/230 VAC 50-1000 Hz. 11x17x15, 46 lbs. Used-reparable, $50. Checked, $85. MANUAL, partial repro, $10.00

H-P WAVE ANALYZERS

HEWLETT-PACKARD 302A WAVE ANALYZER, covers 20 Hz to 50 KHz with operational modes AFC-normal-BFO; 6 Hz selective bandwidth. Resolution: 10 Hz per division. Meter range 30 uv to 300 Vrms full scale in 15 ranges; dynamic range >75 DB. BFO output 0-2 Vrms open circuit. Requires 115/230 VAC 60 Hz; 12.5x20.8 x14.5, 50 lbs. Used-reparable w/book, $135.

HEWLETT-PACKARD 310A WAVE ANALYZER, 1 KHz to 1.5 MHz with selective bandwidths 200, 1000, and 2000 Hz; resolution 200 Hz per division. Operational modes AFC-normal-BFO-USB-LSB-AM. Amplitude ranges 10 uv to 100 V full scale in 16 ranges. AFC: dynamic hold-in +/-3 KHz min @ 100 KHz; tracking 100 Hz/sec. Restored signal freq max output 0.25 V across 135 ohms. Requires 115/230 VAC 60 Hz; 10.8x16.8 x18.4, 50 lbs. Used-reparable w/book, $250.



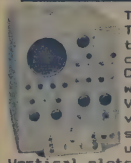


HP-851B/8551B SPECTRUM ANALYZER, popular unit covers 10.1 MHz-10 Ghz; 60 db dynamic range on 7 cm display. 100 KHz-2 GHz spectrum width in 10 calibrated steps. IF center 20 MHz; width 1-3-10-100-1000 KHz. 150 lbs sh. Reparable w/BWO output, $1500.00

HP-3460B DIGITAL VOLTMETER, 0-999.99 VDC; reparable, $175.

MARCONI TF2300A MODULATION & DEVIATION METER measures FM over 4-1000 MHz & AM 4-350 MHz. FM deviation 5-15-50-150-500 KHz Pos or Neg. Used-reparable w/TF2300 book, ~~$595.00~~ $495.

TRANSISTOR CURVE TRACE

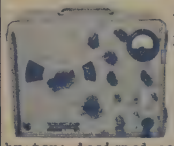


TEKTRONIX 575 TRANSISTOR CURVE TRACER SCOPE, displays characteristics of junction and point contact transistors on 5" CRT. Collector sweep 0-200 V-peak with 1 amp current curves; 0-20 V, 20 A curves. Step generator volt increments 10 mV to 0.2 V/step in five ranges; current 1 ua to 200 ma/step in 17 ranges. Vertical plots collector current 0.01 ma to 1000 ma/div, 16 steps; multipliers/dividers extend range 0.001 ma to 2000 ma/div. Horizontal plots collector 0.01 to 20 V/div, 11 steps. Vertical & horizontal plot base volts 0.01 to 0.5 V/div, 6 steps; base current or source volts read from step collector switch. Requires 115/230 VAC 50-60 Hz; 16.8x13x24, 80 lbs sh. Used-reparable w/book, $250.00

FM SIGNAL GENERATOR

SG-12/URM- FM SIGNAL GENERATOR, 19.5 to 102 MHz FM in five bands with deviation ranges 0 to 25, 50, and 100 KHz; 1000 Hz modulation. Also IF outputs on 1.4, 2.515, 2.65, 2.88, 4.3, 4.45, 5.0, 5.35, 15 MHz, plus two spare positions. Calibrated output voltages: 0.5 uv to .01 volts (RF); 0.5 uv to 1.0 v (IF). Output impedances: 10 ohms (RF); 25 ohms (IF). With 1 MHz and/or 2 MHz crystal calibrator markers. Power required: 115/230 VAC 50-1000 Hz. Size: 12x18x12; Shpg wt: 85 lbs. Used, reparable, $65.00; Checked, $125.00 MANUAL, partial repro, $12. TRANSIT CASE $15.

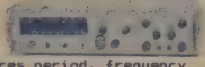
10 KHZ TO 50 MHZ



AN/URM-25F SIGNAL GENERATOR, covers 10 Khz to 50 Mhz AM in nine bands. RF output: o.1 to 100K microvolts into 50 ohms; 2 V adjustable across high load impedance. Modulation 0-50%, 400 or 1000 Hz internal. 1 Mhz calibrator; designed accuracy ±0.05% above 10 Mhz Requires 115 VAC 50-100 Hz. 11¼x14x10¾, 44 lbs. Used, reparable, $145. Checked, $210.00

ACCESSORIES available w/purchase of URM-25F:
BOOK-partial repro,$10. DA-109 Dummy Load $6
CX-2919 Test Lead Adapter, $7.50
CU-406 Impedance Matcher, 500 ohms up, $7.50
CU-408 Impedance Matcher, 70 ohms, $7.50
BNC Cables, 6", $1.00; 4 feet, $1.50

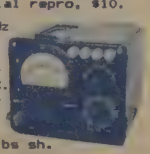
FREQUENCY COUNTER



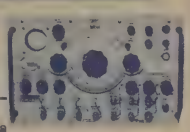
CP-929/USM-245 FREQUENCY COUNTER, portable unit has seven Nixie display with frequency range of 1 Hz to 2.5 MHz; measures period, frequency ratio, and time interval between two signals. Common controls for Function, Time Base 1 uS-10 sec, and Display Time. Separate A and B controls for Trigger Slope and Level and 1-10-100 AC & DC Attenuators. Requires 115 VAC 60 Hz; 4x16.5x17, 22 lbs. Used-reparable w/commercial TSI-361 book, $79.50

TS-505/U, ranges 0 to 2.5-5-10-25-50-100-250-500 Vrms plus 1000 VDC scale. Also X1 ohm thru X1 Megohm ranges. Response: 30 Hz to 5 MHz. With AC, DC, and Ohm probes. 9.8x9x6, 17 lbs sh; Used. Reparable, $20. Checked $45. MANUAL, partial repro, $10.

ME-180/USM-116, features 20 Hz to 100 MHz response (700 MHz using optional T-connector) and full scale ranges 1-3-10-30-100-300 Vrms plus 1000 VDC. 0.02 to 1000 MA DC range; resistance 1 ohm thru 1 Megohm. High frequency AC probe has 6923/EA52 tube. 7x8.3x9, 21 lbs sh. Used-reparable, $45. Checked, $75.00 T-CONNECTOR $10 w/set. MANUAL, par-repro $10.



FREQUENCY COMPARATOR



CM-212/USM-144 FREQUENCY COMPARATOR, used with frequency counters to determine with high accuracy frequencies from 10 Mhz to 12.4 Ghz; similar to Hewlett-Packard 540A oscillator. Measures CW, FM, and pulse modulated RF signals. Unknown signal is fed into USM-144 and is compared to a mixed frequency generated from a stable, continuously adjustable fundamental from 100 to 220 Mhz. Difference in the unknown is shown on 2" dia CRT (2BP1) display. Final determination of the input signal made by the zero beat of the fundamental multiplied by the appropriate harmonic. Requires 115 VAC 50-440 Hz; 13¼x19¼x13¼, 65 lbs sh wt. Used, reparable, $99.50 TRANSIT CASE $10 w/purchase. MANUAL $10 w/set

AUDIO POWER METER

TS-585 AUDIO POWER OUTPUT METER, reads audio frequency power in milliwatts or in decibels referred to 1 MW in 600 ohms. Range: 0.1-5 MW (-10+47 db), 1-50 MW (0+47 db), 10-500 MW (+10+27 db), and 100-500 MW (+20+37 db), read on 3.5" meter. Input impedance: 2.5 to 20000 ohms in 40 steps, 2.5-3-4-5-6-8-10-12.5-15 -20-25 sequence. Freq-range: 30-10000 Hz. 8.5x11.5x5.5, 16 lbs sh. **Used-reparable, $50.** MANUAL for TS-585, partial repro, $8.50

3.7 TO 8.4 GHZ GENERATOR

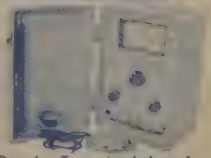
POLARAD 1107 SIGNAL GENERATOR, 3.70 to 8.40 GHz CW, square wave, and sawtooth FM; has three place mechnical digital tuning. Output attenuator continuous;y tunable from 0.1 u-v to 300K uv. Internal square wave and FM rate 800-1200 Hz; FM sweep adjustable over 5 MHz most of band. 2/A713441 transistors and tube 4/OA2, 3/12AX7, EL34, 8068, A160011 Polarad #klystron. Requires 115/230 VAC; 5.3x16.8 x18.3, 50 lbs. Used-reparable w/book, $350.

POLARAD 1108, similar to 1107 except 6.95 to 11 GHz, used-reparble w/book, $365.00

ELECTRONIC FILTER

SKL 302 DUAL VARIABLE ELECTRONIC FILTER has dual filter sections each with high and low pass filtering with high-low cu.-off frequency range of 20 Hz to 200 Khz using decade scales X10-X100-X1K-X10K. High pass greater than 90 db limited by hum and noise; Low pass 60 db on X10K range, 90 db below 1 MHz, 60 db above. Insertion loss: 0 db ±1 db for 20-20K Hz cut-off; 0 db ±2 db for 20K-200 KHz. Input impedance 2 Megohms shunted by 32 pf. Out imped: 300 ohms. Max signal in: 6 V peak. W/tubes 10/12AT7, 0A2, 6AV6, 2/6AV5 or 6AQ5. Requires 105-125 VAC 50-60 Hz; 5.2x19x13.6, 26 lbs. Used-reparable w/partial manual, $75

TRANSIENT VOLTAGE

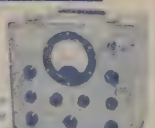


GREIBACH V200 TRANSIENT VOLTAGE INDICATOR, portable unit will monitor AC or DC line and indicate if a previously set voltage level has been exceeded. Ranges 0-100-300-1000-3000 volts and controls Meter Set, Reset, Transient Level Set, Polarity Pos/Neg, Charge On/Off. Requires six "D" cell batteries plus 115 VAC 60 Hz for battery recharge circuit. Batteries not available. With test leads, HV probe and front cover. 6x9x6, 9 lbs. Unused $45.00

VOLTMETER-VLF RECEIVER

ME-71/FCC AUDIO LEVEL METER, COVERS 20 TO 500 KHZ CONTINUOUSLY TUNEABLE. AS SELECTIVE DETECTOR, IT MEASURES RF CARRIER ACROSS A 135 OHM BALANCED OR 600 OHM UNBALANCED LINE. VARIABLE ATTENUATOR PROVIDES INPUT SENSITIVITIES FROM -70 TO -42 DBM INDICATED ON 3½" DIA. METER. INCLUDES 100 KHZ CALIBRATOR. INPUT IMPEDANCE: 10K OHMS. AUDIO GAIN AND TWO PHONE JACKS. VARIOUS MODELS ("C" PICTURED). POWER REQUIRED: 115 VAC 60 Hz. 17x14x9; 40 LBS SH.
ME-71, W/NATIONAL-TYPE DIAL, USED, $40.00
ME-71B, USED, REPARABLE, $45. ME-71C, $50.
OPERATIONAL, ADD $30. MANUAL, REPRO, $8.50

TRANSISTOR TESTER



HICKOK MODEL 1890M TRANSISTOR TESTER, checks transistors in and out of circuit. Collector leakage current (I_{cbo}) ranges: 0-50-500 ua and 50 ma. Collector current (I_c) 0-1-10-100 ma. Current gain Beta: 0-50-100-200-400. AC test signal 1000 Hz. Transistor input resistance range 50-10000 ohms; circuit input impedance 25-100000 ohms. Collector voltages 0-1.5-3-4.5 VDC. Has transistors 4/2N651A, 2N650A. Requires batteries (not supplied) Eveready 763 (22.5 V) and two Burgess 2370-ST (4.5-3-1.5 V). With partial repro of manual. 10x10½x9½, 18 lbs. Used-reparable, ~~$54.50~~ $42.

50 TO 400 MHZ FM

SG-3/URM-70 FM SIGNAL GENERATOR, 50-400 MHz in three bands. Internal modulation @ 100, 1600, or 20000 Hz. External: 250 to 75 KHz. FM deviation: 0-15-75-150 KHz (50-100 MHz), 0-30-150-300 KHz (100-200 MHz), and 0-60-300-600 KHz (200-400 MHz). Output: 0.1 to 100K u-volts ±25%. 50 ohms output. Requires 115 VAC 60 Hz. 15x11.5x17.3; 90 lbs. Used-reparable, $165. Checked, $235. MANUAL for URM-70, partial repro, $10.00

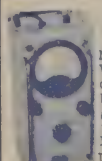
MINI-500 MEGGER

JFC MINI-500 OHMETER-MEGGER, portable unit useful in insulation and ground tests. Has hand crank generator for supplying test voltage, 0-1000 ohmeter, and function select: OHMS-100 V (M /5)-250 V (M /2)-500 V (M X1)-1000 V (M x2)-DISCHARGE. Includes carrying case; meter is damaged. 4.2x6.1x5, 10 lbs sh. Used, AS-IS with output, $39.50

SOLID-STATE OSCILLATOR

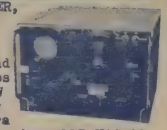
AN/URM-127 SOLID-STATE AUDIO OSCILLATOR, 20 Hz to 200 KHz in four bands. Metered output 0-10 Vrms into 500 or 1000 ohms in 7 decade ranges. Design accuracy +/- 2%; stability +/- 0.5%. Requires 115 VAC 50-70/380-420 Hz. 7.5x13x4.5, 15 lbs sh. Used-reparable, $65. Checked, $115.00; MANUAL partial repro, $10.

ME-6D VOLTMETER



ME-6D/U VTVM, covers 0.005 to 500 V-rms in six ranges and -65 to 57 db. Built-in 15 Hz-250 Khz wideband amplifier with max. voltage gain of 4500; minimal distortion to 23 VAC output. 115 VAC 50-400 Hz. 11½x6½x5¼, 14 lbs sh wt. Used-reparable, $20. Checked, $40. MANUAL f/ME-6D, partial repro $8.50

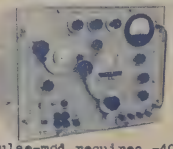
8500-9600 MHZ TEST SET



TS-148/UP SPECTRUM ANALYZER, 8470-9630 Mhz with 3" CRT (3BP1) display. Measures frequencies of cavities, echo boxes, magnetrons, and local oscillators. Receives CW and pulse; transmits CW and FM carrier. 1 MW power output (2K25). Max. spectra dispersion: 1.5 Mhz/in. Requires 115 VAC 60 Hz. 19x13½x25, 45 lbs sh. Used, $50.00

AN/UPM-33 TEST SET, includes TS-148/UP, wave guides, horn antenna, cables, transit case, and manual; 80 lbs sh. Used, $85.00

4 GHZ TEST EQUIPMENT



TS-403 SIGNAL GENERATOR similar to Hewlett-Packard 616B; 1.8 to 4.2 Ghz directly calibrated. Output 0.1 uv to 200K uv into 50 ohm load monitored on 3½" round Power Level meter Internal modulation 40 to 4000 Hz. External pulse-mod requires -40-+70 V; width 1 to 2500 usec squarewave or modulated. Requires 115/230 VAC 50-1000 Hz. 17½x13½x13½, 70 lbs Used-reparable ~~$185~~ $165. MANUAL, repro $10.

SG-557/TS-621 SIGNAL GENERATOR, 3.8-7.5 GHz; similar to HP-618. FM, CW, pulse or square-wave modulation. Pulse rate varies 40-4000 pps; width 0.5-10 usec. Output 1 MW into 50 ohms; 17.5x14x19.5, 110 lbs. Used-reparable with output, $215.00
MANUAL f/SG-557/TS-610, partial repro, $12.

HP-614A UHF SIGNAL GENERATOR, 800-2100 MHz CW, FM or pulsed in single band. Attenuator range: 0 - -127 db (0.223 V to 0.1 uv); output 0.5 mw into 50 ohms. Internal pulse modulation 40-4K per sec variable repetition rate; length 1-10 usec, delay 3-300 usec. Requires 115/230 VAC 50-1000 Hz. 13.6x17.3 x13.5; 70 lbs sh. Used-reparable, $250.00

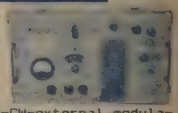
2400-3400 MHZ WAVEMETER

TS-117/GP WAVEMETER TEST SET designed for frequency measurements between 2400 and 3400 Mhz. Used to measure antenna radiation, local oscillator frequencies, relative field strength, and relative output. Q from 1800 to 2000. Includes 50 u-ammeter, sensitivity vernier, and frequency micrometer with conversion tables. Accessories AS-23 directive antenna, UG-183 cable, UG-57 and UG-131 adapters and transit case. Uses N connectors. 5x6x3, 15 lbs sh. Used w/transit case, but less accessories AS-23, UG-57-131-183, $28.

FR-149 FREQUENCY METER

FR-149/USM-159 TRANSISTORIZED FREQUENCY METER, COVERS 125 KHZ TO 1000 MHZ IN THREE RANGES: 125 KHZ-2.5 MHZ, 2.5-65 MHZ, AND 65-1000 MHZ. CAN BE USED AS A SIGNAL GENERATOR BY PROVIDING EITHER MODULATED OR UNMODULATED SIGNALS. FREQUENCY FUNDAMENTALS READ DIRECTLY FROM MAGNIFIED AND ILLUMINATED CALIBRATED FILM STRIP AND THEN INTERPOLATED IN ACCOMPANYING CALIBRATION BOOK. OPERATES FROM EITHER SIX "D" CELL BATTERIES OR FROM 115/230 VAC 50-450 Hz. SIZE: 11½x11½x13; SHPG. WT: 33 LBS. Used-reparable ~~$99.60~~ $75. Checked ~~$180~~ $115

RADAR TEST SET



TS-147F X-BAND TEST SET used to test radar and beacon equipment in 8500 to 9600 MHz range; functions as signal generator, power and frequency measuring device. Generator output over band FM-CW-external modulation; -7 to -85 dbm RF output. Sweep variable from 0.2 to 6 MHz; pulse repetition to 4000 pps. Freq-meter range 8470-9630 MHz +/-2.5 MHz. RF power level input: +7 to +30 dbm. Sawtooth sweep 0 to -100 V. Has 2.5" dia Milliwatt/DBM meter and 2K25 klystron. Requires 115 VAC 60-1600 Hz. 11.5x17.5x10, 40 lbs sh. Used-reparable, $135.00
AT-68 PICK-UP HORN, $12.00
UG-446 ADAPTER, UG-39 flange to N conn, $12.
UG-397 ADAPTER, UG-52A flange to N conn, $12.

SPECTRUM ANALYZER

TS-1010/UPM-84 SPECTRUM ANALYZER, covers 10 MHz to 44.88 GHz in eight bands; 5" 5ADP7 CRT display. Resolution at 3 db points: 20 KHz over range. Dispersion: 500 KHz-5 MHz adjustable (10-55 MHz); 500 KHz-25 MHz (55 MHz and up). Spectrum calibrator 160 MHz center fre +12.5 MHz. Sensitivity as low as -63 db (10-150 MHz); 40 db (2.0 GHz up.) RF attenuation 100 db uncalibrated internal 10 MHz to 12.4 GHz; external attenuators required above. IF attenuation 0-60 db in 6 db steps. Requires 115 VAC 60 Hz. 17.3x19x26; 180 lbs sh, 145 lbs net. Used-reparable, ~~$425~~ $265.
TRANSIT CASE, 75 lbs, $15 w/set purchase.
MANUAL, partial reproduction, $15.00

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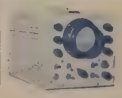
ACCESSORY KIT including five bandpass filters for segments of 0.75-11.8 GHZ range, three variable attenuators and three coax-to-waveguide adapters for 12.4-44.88 GHz, transit case $85.00 w/set purchase.

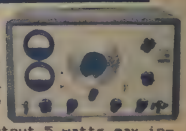
500 KHZ SCOPES

HEWLETT-PACKARD 130C OSCILLOSCOPE, 500 KHz bandwidth on all ranges plus 0.2 mv/cm sensitivity for X and Y amplifiers making it especially useful for phase measurement. Has large easy-to-view 5" dia CRT. Sensitivity 0.2 mv to 20 V/cm in 16 calibrated steps, 1-2-5-10 sequence; vernier to 50 V/cm. Sweep 1 uSec to 5 S/cm in 21 steps; vernier to 12.5 S/cm. Also 350 Hz squarewave calibrator, X2/X50 magnifier, auto triggering, beam finder; with partial repro manual. 115/230 VAC 50-1000 Hz; 7.3x16.8x18.5, 38 lbs sh. Used-reparable, $135. Checked, $195.00



TS-1060/TDA-2N TTY TEST SCOPE, measures bias and distortion of start-stop synch-telegraph signals on 3RP1 CRT. (Could be foundation for cheap general purpose scope!) Input impedance 100 ohms for 60 ma neutral; 30 ma polar. 115/230 VAC 60 Hz; 8x8x15, 24 lbs sh. Reparable, ~~$38~~ $25. MANUAL part-repro, $10.

AUDIO TEST GENERATOR



HEWLETT-PACKARD 205AG AUDIO SIGNAL GENERATOR, has two voltmeters to measure input and output of unit under test plus 0-40 db in 5 db step input attenuator and 0-110 db in 1 db steps. Response: 20 Hz-20 KHz; output 5 watts max into selectable 50, 200, 600 or 5K ohm loads. Requires 115/230 VAC 50-1000 Hz. 12.8x20.8 x15.5, 63 lbs. Used-reparable w/book, $125.

HICKOK MULTIMETER

HICKOK 1604M SOLID-STATE MULTI METER, achieves high gain by using chopper to allow use of AC-coupled amplifiers. AC response to 700 Mhz and AC volt ranges 0-0.5-1.5-5-15-50-150-300 VAC. Eleven DC volts full scale ranges from 0-0.5 V to 1500 V in 15-50-150 sequence. Fourteen DC current ranges 0 to 1.5 nanoamp to 150 ma in 1.5-50-15 sequence. Resistance ranges from 0-500 ohms to 500 megohms in seven steps. AC probe uses EA53 tube. Includes AC and DC probes, two test leads, and partial repro of manual. Requires 115/230 VAC 50-400 Hz. 7½x5½x9½, 13 lb sh. Used-reparable, $85. Checked, $125.00

SQUAREWAVE

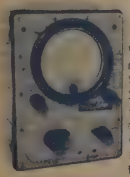
SG-299 SQUAREWAVE GENERATOR, 1 Hz to 1 MHz in six decade ranges. Output: 7 V peak-to-peak 75 ohm impedance with 0.02 usec risetime; 55 V p-p 600 ohm impedance 0.1 usec risetime. 75 ohm attenuation 0-20-40-60 db. Sync input: Positive pulse or sine wave. Requires 115 VAC 60 Hz; 13.9x9.8x13.9, 40 lbs Used-reparable, $35. MANUAL part-repro $8.50

PHASE VOLTMETERS

NORTH ATLANTIC VM-202R PHASE ANGLE VOLTMETER, preset for analyzing 400 Hz phasing; usable for any frequency in 30 Hz-10 KHz range if appropriate filter installed (not available). Selectable FUND-0°-90°-180°-270° phasing with 0-90° dial in 1° increments; 2% accuracy. Resolution 0.05° at 5 times full scale voltage; 30 Hz-10 KHz frequency range. Built-in VTVM has 12 ranges from 0.001-300 Vrms. Input impedance 10 megohms. 115/230 VAC 60-400 Hz; 5.3x19x7.3, 20 lbs sh. Used-reparable with book, $55.00

VM-202BR PHASE METER, similar to above except has filters in signal and reference channel. Used-reparable with book, $69.50

MULTIMETER



ME-297/USM-223 FET MULTIMETER measures volts AC and DC to 5000 V in sequential ranges 2.5-10-50 to 5 KV, AC/DC 1000 ohm/v or DC 20K ohm/v. Also DC current to 10 amps in full scale ranges 0.25-2.5-10-50-100-500 MA DC and 2.5-10 amps. Resistance scales x1K-10K-100K-1M-10M ohms. Includes rugged plastic case, 4.5" dia FS=50 ua meter, red-black test leads and front cover. Requires 6-PXB: 1.3 V and 1-"C" batteries (not included). 6x7.4x8.8, 7 lbs sh. Used-reparable, $34.95; Checked $54.95; Manual partial repro, $8.50

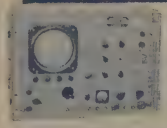
MULTI-PURPOSE TEST SET

AN/TRM-1 SIGNAL GENERATOR, covers 0.19-400 Mhz AM using two RF oscillators SG-32 (0.19-30 Mhz in 5-bands) and SG-33 (30-400 Mhz). Internal modulation 0-60% @ 1 Khz or 200-6000 Hz external. Output: 2.5 to 100K u-volts in nine steps; 50 ohm impedance. Built-in voltmeter measures 0-3-30-600 VDC, 0-3-30-300 VAC, and 0-10-100-1000 MW. Also tests performance of 3 to 100 watt transmitters over freq. range when proper coupler and dummy load (not included) is used. Write for availability/price of accessories. Requires 115 VAC 60 Hz. 18x13x8; 65 lbs. Shipped UPS in two cartons. Used, reparable $135. Checked, $225 MANUAL, partial repro., $10.

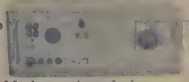
SOLID-STATE SCOPE

OS-106/USM-117 TRANSISTORIZED OSCILLOSCOPE, DC to 5 Mhz bandwidth, 4QP2 rectangular CRT, and is very compact. Includes MX-2996 high gain vertical plug-in plus has dual-trace capabilities when used with MX-2995 plug-in (not included). Sweep range 0.1 usec to 0.1 sec in 19 calibrated steps in 1-2-5-10 sequence. Vertical sensitivity: 0.01 v/div to 20 v/div in 11 calibrated steps in 1-2-5-10 sequence, variable to 50 v/div. Input impedance 1 Megohm shunted by 47 pf. Calibrator generates 1 Khz square wave at either 0.04 or 0.4 V p-p. Requires 115 VAC 50-60 or 400 Hz. 8.5x9.8x15; 20 lbs. Used-reparable, $165. $115.; Checked, $265. $175. USM-117 with dual-trace MX-2995 instead of MX2996, reparable, $165. Checked, $225.00 MANUAL for USM-117, partial repro, $15.00 MANUAL for MX-2995, partial repro, $15.00

SSB SPECTRUM ANALYZER

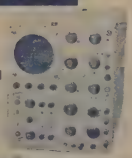


TS-1379A SSB SPECTRUM ANALYZER, designed to measure single sideband transmitter characteristics such as hum, noise, distortion, carrier and undesirable sideband suppression. Solid-state unit has 5" CRT (5AHP7) display for viewing RF. Input frequency 485-515 Hz and 2-30 MHz. Sweep width: 150, 500 Hz, 3.5, 7, 14 & 30 KHz. Requires 115 VAC 47-430 Hz, 16x19x18, 70 lbs. Used-reparable, $225. MANUAL, part-repro $15. TS-1379 ANALYZER, earlier version, used $185.



CV-2353A FREQUENCY CONVERTER adds VLF range to TS-1379/1379A of 100 Hz to 2 MHz. Input of 100 Hz-2 Mhz is mixed with externally supplied oscillator signal in 2.5-4.5 MHz range to produce 2.5 MHz output. Also 3 MHz oscillator output. Input 0.01 to 3 V rms 600 balanced; 600/75 ohm unbalanced. Output 0.01 V @ min attenuation. 115 VAC 60 Hz; 8.3x19.5x6.6, 22 lbs Used-reparable, $75

TEKTRONIX SCOPES



TEKTRONIX 545 SCOPE 30 MHz mainframe with sweep delay, two time bases, and 6x10 cm display. Versatile unit uses wide variety of Tektronix and other manufacturers' letter- & 1-Series vertical plug-ins. 17x13.3x24, 80 lbs sh. Yes, this popular tube-type scope has been around awhile and must be shipped via truck. But consider Tektronix quality, versatility, and now the "unheard of" low price:

TEK 545A w/Tek CA dual-trace, CHECKED, $225.
TEK 545B with Tek CA, CHECKED, $249.00

* *

TEK 545 Mainframe only, used-reparable: $65.
TEK 545A MAINFRAME, used-reparable, $80.00
TEK 545B 33 MHz MAINFRAME, reparable, $99.
MANUALS for TEK 545, 545A or 545B (specify), partial reproductions, $15.00 each.

* *

VERTICAL PLUG-INS for above, reparable; take 15% off plug-in prices if purchased with scope. (Add $10 for TEK manufacture):

TYPE C Hickok Dual Trace, DC-24 MHz, $65.
TEK CA Dual Trace, DC-24 MHz, $95.
G Wide-Band DC-20 MHz, $20.00
53/54K Fast-Rise High-Gain DC, $30.00
L Fast-Rise High-Gain DC and AC, $40.
TEK 1A1 Dual Trace DC-30 MHz (50 MHz for Tek 547), reparable, $95. Checked, $145.

TEK TYPE M Four-Trace, reparable, $125.00
TEK TYPE Q Strain Gauge, reparable, $115.00
TEK TYPE R Transistor Risetime, $100.00
TEK TYPE W Differential Comparator, $115.00
TEK 2B67 Time Base for 560-series, $85.00
TEK 10A2A DC-100 MHz dual-trace f/647, $135.

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TEKTRONIX 434 STORAGE SCOPE, portable DC to 25 MHz dual trace; full upper or lower screen storage. Used-exc w/book, $1500.00

LM FREQUENCY METER

LM FREQUENCY METER, crystal calibrated unit covers 125 to 20,000 Khz in two bands. Designa accuracy better than 0.05%. Output 250 uv minimum; 600 ohm impedance. 40% AM modulation at 500 Hz. With calibration book, 1000 Khz crystal, and tubes 6A7, 76, 77, 2/991. Requires 12 V 600 ma AC, 260-475 VDC 20 ma. 8¾x8x8¾, 14 lbs sh wt. Gov't-reconditioned, $24.95; MANUAL, $7.50 w/set. Power input connector for meter, $3.00

SIGNAL GENERATORS

AN/URM-25 SIGNAL GENERATOR, older version of URM-25F, 10 Khz-50 Mhz AM in nine bands. Output 0-100K uv into 50 ohms. Modualtion 0-50% 400 or 1000 Hz internal. One Mhz crystal calibrator. Requires 115 VAC 50-1000 Hz. Less front cover; 11½x14x10¾, 44 lbs sh. Used, reparable, $85. Checked, $130. ACCESSORIES available w/purchase of URM-25: MX-1487 impedance adptr $6. MANUAL, $10. SM-35 antenna simulator, $5. CN-223 5:1 attenuator $5. CN-224 10:1, $6.

* *

3 TO 405 MHZ

AN/URM-26B SIGNAL GENERATOR, older version of URM-26B, 3-405 Mhz AM-CW in six bands; output 0.1 to 50K uv into 50 ohms. 0-50% internal modulation, 400 or 1000 Hz. Requires 115 VAC 50-1000 Hz. 11½x15½x10¾, 42 lbs sh wt. Used, reparable, $90.00; MANUAL, partial reproduction, $10.00 CN-179 10:1 or MX-1289 adapter, $7.50 each.

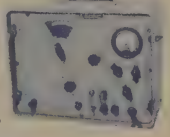
ENVELOP DELAY TEST

SIERRA 340B ENVELOP DELAY TEST SET, solid-state unit designed to cover CCITT and WE voice and group carrier mulitplex system frequencies. Separate 6-digit readouts for delay in U-sec and frequency in KHz. Carrier freq 300 Hz to 110 KHz in two ranges; delay 0-20K usec (25 Hz modulation), 0-2K usec (250 Hz mod). Input/output Z select 75-135-600-900 ohms. Transmitter output -20 to +10 db; receiver -45 to +20 db No further info. Requires 115/230 VAC 60 Hz; 5.3x19x15.8, 32 lbs. Used-reparable, $250.00

TS-2669 ENVELOP DELAY DISTORTION MEASURING SET Acton mfg; multi-function w/5-digit frequency counter & signal generator over 0.1-600 Khz 10 db max. Provides carrier, reference, & sweep signals; 25, 83-1/3, 250 Hz modulation. Delay Millisecond and % Modulation meters; solid-state. Reparable, $250.

GENERAL RADIO 1650A RLC BRIDGE, $350.00
GR-1433-X DECADE RESISTANCE BOX, 0.1 to 111,111 ohms, +/-0.4% minimum, $145.00
BALLENTINE 1066B SOLID-STATE DC-20 MHZ SCOPE dual-trace; 5" CRT. Checked w/book, $265.00
DUMONT 708A DUAL-BEAM SCOPE, DC-500 KHz, 10 uv-10 V/cm sensitivity. Reparable, $150.

4 TO 405 MHZ GENERATOR

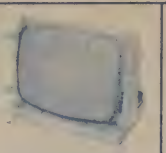


SG-117/URM-26B SIGNAL GENERATOR, 4.0 to 405.0 MHz AM-CW-pulse in six bands. Compact unit has 0.1 to 100K uv output @ 50 ohms. Modulation 400 or 1000 Hz 0-50%. External pulse-mod requires positive 40 V min. 50-5000 pps; duration 2-40 usec and 70 ohm input impedance. Requires 115 VAC 50-1000 Hz; less front cover. 11.3x14x10.5, 36 lbs. Used-reparable ~~$175~~ $115. Checked, ~~$225~~ $165. MANUAL, partial repro $10.

ACCESSORIES sold only w/purchase of URM-26B:
CN-315 2:1 attenuator, 50 ohms, $8.00
CN-316 10:1 50 $10. CN-471 10:1 70 $10.
CU-439 impedance matcher, $10.00
BNC cords, 4 ft, $3.00; 6", $2.00

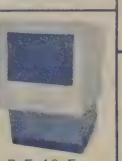
PRICE REDUCTIONS ON COMPUTER SURPLUS!

GREEN MONITOR



12" diag-GREEN COMPOSITE MONITOR, high quality unit made for Commodore featured in our Summer '85 Supplement. We bought more at a lower price and are passing on the $5.00 savings. Has Amperex M31-3346R CRT and fiberglass PC board; sturdy steel frame allows easy attachment of your constructed enclosure. Requires 12 VDC 2 amps; manufactured in late 1984 by Elston Electronics. 10"Hx12.8"Wx11"D; 18 lbs #DM-30-WDSR, NEW w/schematic, ~~$39.95~~ $29.95

MICROFORM DATA 9" MONITOR comprised of Motorola XM227-17 composite black and white monitor suitable for use with video camera or as a computer monitor. Hidden control for contrast and brightness; also On/Off switch, 75 ohm or high impedance input (BNC connector), and ivory case with green base. Requires 115/230 VAC 60 Hz. 16.5x9.5x10.5, 22 lbs. #MD9-MON, used-good condition $35.00



TI-1766 CALCULATOR

TEXAS INSTRUMENTS TI-1766 POCKET CALCULATOR with add, subtract, multiply, divide, square root, and memory functions which most of us use all of the time. Has excellent key action not found on the annoying throwaway cheapies. Solar-powered; LC display. NEW, $7.95

COLECO JOYSTICK

COLECO JOYSTICK/CONTROLLER, features joystick with two independent fire buttons and 0-9, *, # keypad. One foot coil cord extends to 3 feet, DB-9 connector as on popular joysticks. Output lines are diode matrixed, but may be rewired for popular computer/game machines. 2 lbs; #JS-CO-CO, $3.00 ea. 2/$5.00

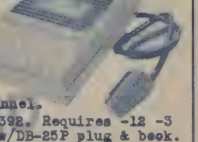
50K JOYSTICK

JOYSTICK with four 50K ohm potentiometers having fixed center-taps; smooth ball action. Brushed aluminum handle; 2¼x2¼x2¼. #JS-50K-LIB NEW $5.95

BALLY ARCADE BOARD

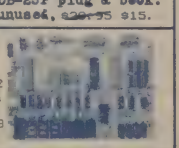
Part of home arcade game; has Z80 CPU, 2364, 8/4027, 7416, DM81LS95 and 74-series LS00, 2/LS02, LS04, 2/LS10, 2/LS74, LS174, 2/LS257, LS376; 14.318 MHz xtal and other parts. No data; 8.5x11, 2 lbs. #Z80-90701-B620, NEW $4.50

DATA CASSETTE



DATA CASSETTE RECORDER, adaptable for use with most microcomputers having RS-232 input. Functions: Eject, Record, Rewind, Ready, Forward, Stop, Read-from-Tape, and Write-on-Tape. Tape speed 1-7/8 ips, 4-track 2-channel. Similar to Monroe Model 392. Requires -12 -3 45 V. Includes 5' cable w/DB-25P plug & book. 8x5x3, 4 lbs sh. #DC-REC, unused, ~~$29.95~~ $15.

#217-244 CONTROLLER CPU for printer; has 8085 MPU w/5.7143 MHz xtal, socketed IC's 2/8255A, 8253, 8212 4/8205, 9/3341 FIFO, 4/2111 7400, 3/74LS00, 74LS125, 74LS161. Sockets for 6/2708 Req +5, -5, +12 VDC; $15.00



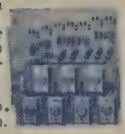
DATA COMMUNICATIONS

COMMUNICATIONS PC ASSEMBLY from a premier U.S. mfg; appears to be a high power modem deck featuring socketed PP34C132 & PP34C-103 special EPROM and five 2716's plus soldered 8085 CPU and 8155 I/O-timer. Has 7 push switches, 8-LED indicators, and two 8-pos DIP switches on front and five DEC-9S connections on rear. Also 70+ Cmos, 74LS, and misc soldered IC's, 4-transformers, 3-inductors, three 24 VDC relays, and 18.432 MHz xtal. Sold for experimental use only; no info available. 7.3x11 x3, 5 lbs. #RM-4401-246AE, used, ~~$14.95~~ $9.95

WHISTLE/SOUND ACTIVATED

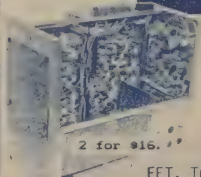
WHISTLE/SOUND ACTIVATED SWITCH, alternates on-off latching operation. Can be used to control lights, TV commercials, robots, etc. Ten transistors; 2¾x3-1/8 circuit board with microphone and schematic. #AST-968S3, $1.50 each.

TIME-TEMP SIGN PCB'S



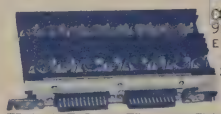
SCR/TRIAC CONTROLLER BOARD with seven each 400 V 4 A SCR's and 200 V 6 A triacs. SCR's trigger the triac gates with a 50 m-sec 16 V pulse that holds all triggered triacs "on" until 24 VDC to SCR's is reset. Originally p/o time-temp sign. 6x6x2, 1 lb. #ASI-CMC27, w/schematic ~~$5.50~~ $3.

FISH TANK



FISHTANK OF ELECTRONIC COMPONENTS, P/O VIDEO TAPE SYSTEM. CONSISTS OF DEMODULATOR, SERVO-AMP, DROPOUT COMPENSATOR, PER/POST PROCESSOR DC POWER SUPPLY (115 V 60 HZ; OUTPUT -12/-12 1AMP REG, 5 VDC 1 AMP UNREG. MANY PARTS, IC'S FET, TRANSISTORS, TRANSFORMER VARIABLE RESISTORS, CAPACITOR MORE! SIZE 14x12x6½ WT 15 $9.95

2 for $16.

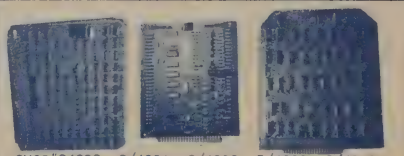


CONTROL ASSEMBLIES ON 9x4 HEATSINK. USED, EXCELLENT YIELD ON SEMICONDUCTORS. SHPG WT. 4 LBS EA. SIMILIAR TO PICTURE ORDER BY NUMBER

TRANSISTOR CONTROL ASSEMBLY WITH DIODES.

8/TO-3 60v (SIMILIAR TO 2N3055) AND 8/TO-66 (SIMILIAR TO 2N3054) 60v TRANSISTORS, 8/0.4 OHM 5W AND 8/3OHM 3W RESISTORS, 8/DO-4 DIODES WITH INSULATED MOUNTING HARDWARE. #7729 $2.75

TRANSISTOR CONTROL ASSEMBLY, CONTAINS 8/TO-3 AND 8/TO-66 AND EMITTER RESISTORS AS ABOVE. SMALL DIODES AND RESISTORS #0425 $2.40

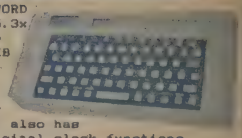


CMOS#84293; 3/4001, 2/4002, 5/4009, 2/4010 4/4011, 2/4012, 7/4013, 4021, 2/4022, 7/4023 2/4025, 2513 A 64x8x5 CHARACTER GENERATOR 7417. 9x7½, SH WT 2LBS #84293 ~~$5.95~~ $3.

CMOS-KI; 6/4008, 4/4009, 4/4011, 2/4012 7/4013, 9/4016, 5/4022, 2/4023, 4024,5/4040 9x7½, SH. WT. 2 LBS #CMOS 84292 ~~$6.95~~ $3.25

CMOS #14007; 4/4001, 2/4011, 2/4013, 4042, 4558 DUAL OP-AMP, 23 TRANSISTORS, MANY RESISTORS, CAPACITORS. 1 LB #14007 ~~$2.95~~ $1.25

LAP-TOP PROCESSOR



LEXICON LAP-TOP WORD PROCESSOR, true 5.3x 10.5x1.8 lap-size unit features 14KB usable word processor memory, 300 baud modem, and nicad battery power or 115 VAC. also has calculator and digital clock functions, single-line LCD display, "chicklet"-style QWERTY keyboard, and peripheral output DB-37 connection. User can create, store, and search upto 20 separate files; battery power can maintain files for over two weeks if necessary. The onboard modem allows data to be transferred over the phone to a remote computer and also permits access to subscription info services such as EasyLink and Dow Jones Financial News. Although it utilizes a low power Z80-type CPU, the lap-top word processor is not a computer in that it cannot be used to develop and run programs. However, for those who's primary computer usage is word processing, the Lexicon is a convenient tool. With modem cable, batteries, battery charger, and operation book; 30 day warranty for purchase price refund. 4 lbs sh; #LEX-LT-WP, NEW, ~~$109.50~~ $65.00

AUGAT PROTO PC BOARDS

AUGAT UNIVERSAL IC PACKAGING PANELS for prototyping circuits using 14- and 16-pin IC's; usable with some larger IC's (40-pin) by straddling rows. Each has gold-plated wire-wrap contacts, V & G sleeves, and 1/16" thick glass epoxy. Mating connector not available. NEW: #81X6-U6-1, 12 rows 4x6.5, ~~$3.~~ ea $2. #81X6-U6-2, 28 rows 7.3x6.5, ~~$79.50~~ $60 (Current Augat catalog list $85+ and $180+!)

48 TPI DS-DD DRIVE

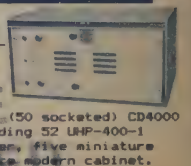
MAGNETIC PERIPHERALS 9428 DISC DRIVE, 1/2 height 48 TPI double-sided double-density; usable with the IBM PC and its many clones. Black front plate; 4 lbs

#CDC-MPI-9428, NEW ~~$83~~ $55
#CDC-MPI-9429, 1/2-HT 96 TPI DS-DD $66.00
#CDC-MPI-9408, full-HT 48 TPI DS-DD, ~~$85~~ $65

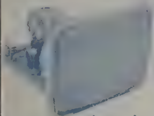
HOSPITAL INTERCOM BOX

INTERCOM CONTROL BOX an experimenters delight, this item was part of hospital desk-patient communications system. 8x5.6x2 aluminum box has Licon 10 amp lighted-push switches: two SP momentary 0.8" sq, one DP mom 0.8" sq and one SP mom 0.8"x1.5", a 3"x6" dia 8 ohm speaker, volume control, and 7x4.5 circuit board. PC board has socketed Sigma 70R-Series 2-amp relays 2/4PDT and 1/DPDT, two Triad TY-47X 2000 ct: 16/8/4 ohm AR transformers, and socketed IC's LM324, 2/LM339, MC14001, MC14011, MC14028, MC14042, MC14585, 3/MOC319 ULN2004; 4 lbs sh. #MID-IC-BX, used, ~~$9.95~~ $6.95

CABINET & CARD RACK



CONTINUITY SCANNER, General Engineering BSR Dual 192; has 5 VDC power supply with Signal #241-7-16 16 VCT 3.5 A transformer, adjustable card rack, 8 circuit cards which contain 170 (50 socketed) CD4000 /74LS-Series IC's including 52 UHF-400-1 Quad 2 input power driver, five miniature toggle switches, and nice modern cabinet. Interesting experimenter item and/or good parts source. No further info. Panel 8.75x19 x13, o/a 11x20.5x14.5; 35 lbs. Used, $39.50



AMBER DISPLAY

9" DIAGONAL AMBER VIDEO DISPLAY made by Elston for the Columbia Data portable; includes CRT and circuit board. Not composite; requires external horiz-drive & vert-synch and reg +12 VDC. 6 lbs. #AMB-CLA, NEW w/schem., $22.95
#DM30-0980415-C31, as above but green $17.95

* SEMICONDUCTORS *

8085 CPU,	$2.50	2114 RAM,	$1.00
3341 FIFO,	$1.50	AY5-1013, UART	$2.95
RC4558 2-op-amp	4/$1	CD4069 CMOS,	3/$1.00
S14K-130 20 A MOV	$1.	CL903L Cd-Se photo	4/$1

FPA103 light reflective transducer, $.75 ea

LM-340T12 with heatsink $1.25
LM317T 2-37 V reg $1.50 LM318N op-amp $1.50
MPSA14 NPN darl 5/$1.

2N2222A NPN	6/$2.	2N4126 PNP lo-no	6/$1
2N6346 unijunct	75¢	TIP120 NPN darl.	75¢
TIP140 NPN darl.	95¢	TIP142 NPN darl.	$1.00
TIP145 PNP darl	$1.00	7808 8 v reg.,	3/$1.

DIODES & BRIDGES new/unused removed f/equip:
#KBPC25-02 or like, 25 A 200 V bridge, $2.
#KBH25005, 25 amp 50 volt bridge, $1.35
#KBPC6005, 6 amp 50 volt bridge, $1.00
#KS19404 DIODE 100 V 50 A; no heatsink $2.

1 AMP 50 PIV 20/$1. — 400 PIV 15/$1. — 1000 PIV 10/$1.
35 AMP 50 PIV $1.80 — 100 " 2.10 — 400 " 3.25
5 AMP 800 PIV, $1.75
1N3890 100V 12A 4/$3.
1N21 diode, $1.00 ea
ZENERS, 1 W: 3.3 3.9 4.1 10.2 V 4/$1. 11.6 12.0 V 3/$1.
MR-Series, 6 amps: MR752 200 " $1.10; MR754 400 " 1.25
1N2974B, 10 W 10 V 5% stud mt. $1.25
1N1357RA ZENER, 10 W 18 V 5% rev-polarity $1.
VARO VTA200/S 200 V 25 amp bridge rectifier, c.t. cathode, stud mount, $1.00 ea. 4/$3.
#50-100A RECTIFIER, 50 V 100 A conservative; no hardware or pigtail. House #; 2x1". $2.
#30084-A (-AR=reverse) DIODE, 300 V 84 A, $5.

LED'S

RED, T-1¾ size 8/$1. GREEN 6/$1.
DARK RED, HP5082-4697, 6/$1.00
7-SEGMENT NUMERIC DISPLAY, common anode, lefthand decimal HP5082-7730 $1.
SLA-2 DISPLAY; .33", - or -1 and 1, 2/$1.00

IC SOCKETS

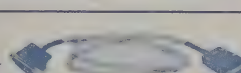
8-pin low-profile	5/$1.		
14-pin wire wrap	6/$2.		
14-pin standard	5/$1.		
16-pin stnd.	4/$1.	16-pin l.p.	5/$1.
18-pin l.p.	4/$1.	20-pin l.p. 35¢	3/$1.
22-pin l.p.	3/$1.	24-pin l.p. 40¢	3/$1.
24-pin stnd.	50¢	28-pin l.p. 45¢	5/$2.
28-pin stnd.	60¢	40-pin stnd.	$1.00

JUMPERS

PCB jumpers, unused.

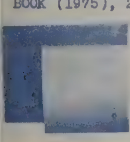
44-40P2;	two 40-pin,	23" long,	~~$4.25~~	$3.25
43-16P1;	one 16-pin,	12" " ,	1.50	3/$3.
44-16P2;	two 16-pin,	48" " ,	~~3.00~~	2.40
43-24P1;	one 24-pin,	12" " ,	~~2.00~~	1.50
60-24P2;	two 24-pin,	2½" " ,	~~2.50~~	1.75

RS-232 CABLE,



5 ft 25-conductor with male DB-25P and female DB-25S; 3#. #CB-RS232-5 used, $8.

TEXAS INSTRUMENTS SEMICONDUCTOR MEMORY DATA BOOK (1975), 272 pages, $1.00



COPPERCLAD PCB

SINGLE-SIDE copperclad etching board for making printed circuits. Phenolic (PH) or fiberglass (FIB) backed:
#PH-4"x18", $.75 ea; 4/$2.50
#PH-16x18, $2.75 ea, 5/$10.
#FIB-16x18 single-sided, $3.50 ea, 5/$12.
#FIB-15x12 double-sided, $2.65 ea, 5/$11.

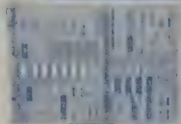
* *

VERY THIN COPPERCLAD, less than half thickness of above; easily flexed to make cylinders, RF shield, or laminates; fiberglass core. Single-sided (SS) or double-sided (DS).

	Size	Th	Price	Size	Th	Price
#VTC-SS	14x18	.019"	$1.75	18x24	.015"	$2.25

BUY 5 or more one type, take 20% off price.

8088 PROCESSOR BOARD



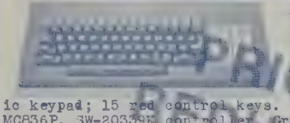
BETACOM PROCESSOR BOARD, originally part of the Pro Communications box above; we do not know its designed capabilities, but it is "loaded" with popular components such as socketed 8088 MPU, 8203-3, and eight 27128-45 EPROMS. Also soldered 4/8251A, 2/8253-5, 2/8255A-5, 8259A, 8284A, 8/4164-20 DRAM's, and 35+ assorted 74-, 74LS-, and 14-series IC's. Sockets for additional five 27128; 2.4 V N-C battery. 14x10, 3 lbs sh. #8088-PCM, NEW, ~~$45.00~~ $36.

PRICE REDUCED

CORTRON KEYBOARD with ferrite core key switches. Has standard 54-key typewriter format, 12-key numeric pad, and 17 entry keys (4 unmarked). Butterscotch-brown and beige keys; looks like serial input. With IC's 2/7403, 7405, 74155, 4/74145, 74S287, 3/74LS00, LS02, 2/LS04, 2/LS10, LS08, LS11, LS14, LS20, 4/LS74, 2/LS93, CA3086, MC833P, and 80-551276 controller. Requires +5 and -12 VDC; No further info. 6¼x18¼, 4 lbs. #55-500168 NEW ~~$21.95~~ $8.

PRICE REDUCED

SPERRY KEYBOARDS

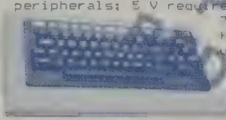


84-KEY MICROSWITCH KEYBOARD, standard qwerty format with 13-key numeric keypad; 15 red control keys. IC's SW-10667 MC836P, SW-20339K controller. Grey keys and case; 7¼x17½x2¼ 4 lb. #84-SD12-14 used ~~$26~~ $12.
#8120302, same as #84-SD12-14 except with Japanese KANA symbol characters; NEW ~~$40~~ $15.

PRICE REDUCED

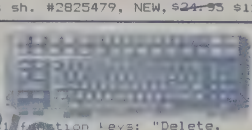
8048 CPU KEYBOARDS

MICROPROCESSOR CONTROLLED KEYBOARDS. features P8048 controller, an 8-bit CPU, ROM, RAM, I/O package with 1x8 ROM, 64x8 RAM, and 27 I/O lines. Compatiable with 8000 Series peripherals; 5 V required. With 8048 info.



74-KEY MICROSWITCH KEYBOARD, compact unit with case and standard querty format plus control functions Erase Display-Home, In Disp Delete in Line, Insert, EOD Erase -EOL, Char Erase-Xfer, Ctl Page-Print, Unlock Msg-Wait, Cursor direction, etc. IC's 74H04, 7442, 8048 & 5.904 MHz xtal 3' cord w/DEC9S. 8.5x15x3, 5 lbs sh. #2825479, NEW, ~~$24.95~~ $12.

PRICE REDUCED



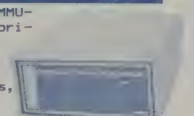
CORTRON 110-KEY MULTI-FUNCTION KEYBOARD with querty format, 13-key numeric pad, cursor control keys, and 11 function keys: "Delete, Insert, Erase, Kmit, Xfer, Print, Kboard Unlock, Control Page, Tab Set, FCC Clear/Search FCC Generate/Status, FCC Generate/Msg Wait, Hang Up," and others. IC's CD4051, LM393, 74LS00, 74155, CD4028, 4028, 8048; 6.00 MHz crystal. One or two keys maybe "reject." 7.3x19x1.5, 5 lbs. #2878915. ~~$19.95~~ $9.

PRICE REDUCED

SATELLITE TV RECEIVER

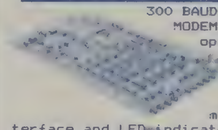
KLM SKY EYE X SATELLITE TV RECEIVER with 4 GHZ to 70 MHz DOWN CONVERTER, receiver continuously tunable 0 thru 24 on 3.5" linear dial. Has front panel controls Power, AFC, Polarity, and Audio Tune plus LED indicators for Signal Strength, Power, Center Tune and AFC. Rear outputs for Down Converter, Ant Pol Cont., Audio Out, Video Out, Channel 3/4, Output to Stereo Processor, Video Invert, RF Out and IF In. Inexpensive spare! 2.5x12.6x9, 14 lbs sh. Unused w/info, $59.50

BETACOM PROJECT BOX



BETACOM PROFESSIONAL COMMUNICATIONS MANAGER BOX, originally when it had all of its circuit boards, unit controlled serial and/or parallel printers, CRT, and 300/1200 baud modems. We are offering the 4.8x10.8x15.8 enclosure only with 5 V 3 amp modular and a small +/-25 V power supply as a project box. Nice clean front panel. Circuit boards available separately; no info. 16 lbs sh. #PCM-BOX, unused, $24.95

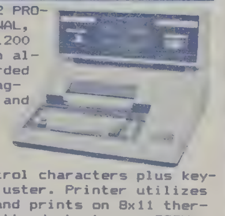
MULTITECH MODEM BOARDS



300 BAUD ORIGINATE/ANSWER MODEM BOARD designed to operate in asynchronous mode 0-300 bps; part of Multitech MT-103J, a quality Bell 103 compatible modem. Has RS-232C interface and LED indicators for Receive Data, Transmit Data, Carrier On, Clear to Send, Data Set Ready, On Hook, Data Terminal Ready, Ring Indicator, and Out of Service. Also toggle switches for Analog Loop/Out of Service, Digital Loop, Half/Full Duplex; DIP switch for DisAble Auto Answer, Receive/Send Space Disconnect, Forced DTR, Loss of Carrier Disconnect, ANLB When DOS; FCC registered. Requires +/-20 to 25 VDC and +5 VDC; onboard regulators for +/- 12 V. 11x5.5; 2 lbs sh. #MT103J, NEW w/pinout ~~$24.95~~ $12.50

PRICE REDUCED

TI-742 PROGRAM TERMINAL



TEXAS INSTRUMENTS 742 PROGRAMMABLE DATA TERMINAL, ASCII terminal with 1200 baud modem card which allows data to be recorded onto digital-grade magnetic tape cassettes and later transmitted to another terminal or central computer. Keyboard has 68 printable and 33 control characters plus keypunch-type numeric cluster. Printer utilizes 5x7 dot matrix head and prints on 8x11 thermal paper. Dual cassette deck storage 288K characters/cassette min; 800 BPI, 86 character block phase-encoding. Off-line playback or record @ 30 char/sec; tape duplication @ 200 char/sec. On-line play/record @ 110, 150, 300, or 1200 baud. Requires 115 VAC 60 Hz; 14.6x21.2x19.5, 70 lbs. Sold "AS-IS" used-complete w/info, $89.50; less modem card $55

+ +

PRINTER TERMINAL only from TI-742 less modem card; modify for stand-alone use. 45#; $30.
DUAL CASSETTE DECK with control panel from TI-742; 32 lbs sh. #2CD-TI742, used, $35.00

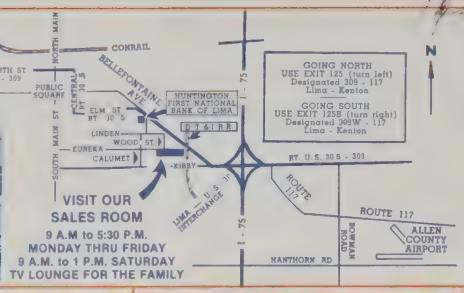
TI-732 KSR DATA TERMINAL, similar to 742 printer but for TTY communications. Five level baudot code, 20 ma neutral loop. Send-receive speeds 50, 75 or 100 baud (6.67-10-13.33 cps). Upper case only 37-key QWERTY keyboard; 55 printable characters & 5 print functions. Adapt to RS232C interface or acoustic couplers; 45 lbs. Unused, $135.00

KEYTRONICS PC KEYBOARD

KEYTRONICS 51-SERIES KEYBOARD used with Columbia Data personal computer and fully compatiable with IBM(R) and "clone" PC's. QWERTY format, numeric pad/cursor, 10 function keys; low profile, almond color with coil cord & connector. Units slightly used with minor "scuffs" but test "OK". 7.5x17.5x2, 7 lbs sh. #CD-KEY-51, $49.95

SIDE-CUTTER

BAHCO PRECISION SIDE-CUTTER for close cuts of 1.2 mm copper wire. Joint pressure adjustable; cut ends retained by wire holder. Top quality; Swedish-made. 4.5"L, 2 lbs. #B-SC-2132-4, NEW, $8.95



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SALES ROOM
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MONDAY THRU FRIDAY
9 A.M. to 1 P.M. SATURDAY
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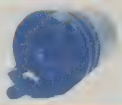
COLLECTOR BULBS

We just discovered a group of large and/or unusual old aircraft and projection lamp bulbs whose glass and "simple but elegant" filaments recall a charm and beauty not unlike that found in old collectible radio tubes. All unused w/mogul base; may or may not work:
WESTINGHOUSE AVIATION 500 W 230 V (pic 1), 9.8"Hx4.8" dia; 2 lbs. #W500-230-1, $9.00
GE AIRPLANE HDLT 12V 240W, 3.6x2.3 dia $3.
WESTINGHOUSE ON-COURSE BEACON 500 W 125 V T20 bulb (pic 2); 9Hx2.5 dia #W-OCB-2 $6.
EDISWAN PROJECTION (2) 6-8 amp 200 W, 5.3x 1.4" dia; #E-PR-8-200-2, $3.00
GE 30 W 240 V; 5.3x1.3" #GE30-240-2S, $2.
T-8 BULBS (like pic 2), 3.4"Hx1" dia:
GE PROJECTION 200 W, #GE-PH/200T8SC, $2.
RADIANT mfg PROJECTION, #R-200/TCC8, $2.
SYLVANIA BLUE-TOP PROJECTION, #CFC/CEW, $3
GE PHOTO MICROGRAPHIC (pic 3) 11 V 30 A 2-prong base; 6.3"Hx2.6" dia. #GE-PH-MI, $5.

BRAKE LIGHT

AUTOMOBILE BRAKE LIGHT, 5.5"W x 2.8"H red lens on black plastic stand; top swivel adjusts light angle. German made; o/a 7.5"H max, 2 lbs sh. #BL-G10005, NEW, $3.95 ea

CRANK GENERATOR



G-25 HANDCRANK 20 HZ GENERATOR, sealed-can type from field telephones; use to ring phone bells or experiment. 4"x2.5" dia; 3 lbs. Checked, $15.00

SWIVEL CASTORS

HEAVY-DUTY SWIVEL CASTOR 3" dia x 1-13/16" thick with 4x3 mounting plate; ball bearing-ed swivel. Used-good condition; 10 lbs sh/set. #IS-3-CAST, $12.50/set of 4

XTAL IMPEDANCE METER

TS-330/TSM CRYSTAL IMPEDANCE METER, measures parameters of 1 to 15 MHz quartz crystals, measures series resonant and anti-resonant resistances, and provides performance index of crystal activity. Ranges 0-1.5, 1.5-2.25, 2.25-3.4, 3.4-5.1, 5.1-7.5, 7.5-10.0 MHz. Resistance calibration 0-100 ohms (1Ω steps), 100-990 ohms (10Ω steps), 1000-9900 (100Ω steps). Load capacitance 12-110 pf using 0-100 dial and calibration chart. Requires 115 VAC 50-1000 Hz. Similar to RFL Model 459; gray or black color. 7x 19.5x8.3, 30 lbs sh. Used-reparable, $165. MANUAL for TS-330, partial, repro, $12.00

FIELD DAY ANTENNA KIT

3 in ONE PORTABLE ANTENNA KIT ideal for "field day" DXing Comprised of GRC-9 2-12 MHz antenna gear combined in single package. Includes AT-101-102 long-wire (#15 stranded-copper) antennas with insulators and clips for adjusting frequency; 5-section 15 ft whip (3/MS-116, MS-117, MS-118) with IN-127 base; plus CP-12-13 counterpoise for 15 ft radial ground plane. Also guy ropes, 4 guy stakes, & CW-419 canvas carrying bag. NATO-surplus; 22#. #FD-GRC-9, used-good, $49.50

EXTENSION BELLS

TELEPHONE EXTENSION BELLS, ring by using 20 [illegible] or tele- [illegible] nera- [illegible] re- [illegible] ald [illegible] sig- [illegible] t: [illegible] EE-8 [illegible] .95 ea [illegible] /434
phones, magneto [illegible] nalling devices. [illegible] MC-131 BELL, do[illegible] field phone; 3' [illegible] VP-2-1 BELL, si[illegible] control; 2" di[illegible]

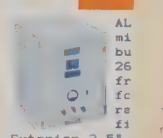
SINGLE SIDEBAND TEST

SG-376 TRANSISTORIZED TWO-TONE I.F. SIGNAL GENERATOR for testing SSB equipment. Has two 20 Hz-20 KHz audio oscillators and two independent IF oscillators. IF outputs: 497.5, 498.5, 501.5 or 502.5 KHz only plus 497.5 & 498.5 or 501.5 & 502.5 KHz simultaneously. Output levels: 2-2.5 V into 600 ohms (AF); 1-1.25 V into 60 ohms (IF) with attenuation to 100 db in 1 or 10 db steps. Requires 115 VAC 50-450 Hz. 5.5x19x11, 35 lbs Used-reparable $95. Checked $155. MANUAL $10

UHF BROADBAND DIPOLE

AT-803/VR CENTER-FED BROADBAND VERTICAL DIPOLE ANTENNA for 225-400 MHz; p/o VRC-24/TRC-68 UHF radio equipment. Female N RF connection; 9.3"Lx2.3" dia, 3 lbs sh. Used, $15.

CAB



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Exterior 3.5" [illegible] sh in-
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PRINTER STAND [illegible]
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to access int [illegible]
switch contrc [illegible]
let AC strip [illegible]
ductor AC cat [illegible] sh;
23.8"H, 50 lbs sh. #PS-111, [illegible] $22.95

ACCESSORY BAGS

all CANVAS in nice usable sizes to carry or store different items; used-good condition:

BG-172 RUCKSACK BAG, adjustable shoulder straps for backpack carry; 13x13x10 with two external pouches 12"Lx10"H and 12x4 plus four small internal pouches. 6 lbs sh., $6.00

BG-186 BAG, thin 9.8x14x4 size with three internal compartments; snap closure and strap, 3 lbs sh., $5.00

CW-189 BAG 9x10x10 with two-snap cover and carrying strap; p/o GRA-6, 3 lbs. $7. $4.50

CS-76 BAG, similar to CW-189 except 7x10x8 with strap closure, 3 lbs sh., $4.00

SG-823/URM-144 TWO-TONE REFERENCE GENERATOR for measuring receiver sensitivity and SSB transmitter distortion. Has two RF outputs usable independently or in combination without intermodulation effects. Outputs 2, 3.6, 4, 7.2, 8, 14.4, 16, 28.8 MHz at 100K u-volts max into 50 ohms. Freq adjust +0.05% (A), +0.0025% (B). Requires 115 VAC 60 or 400 Hz. 5.5x19x11, 35 lbs sh. Used-reparable $90. Checked $146. MANUAL $10
+ +
SG-376 and SG-823 designed for use with TS-1379A Spectrum Analyzer on page 33.

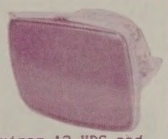
BIRD WATTMETER

BIRD 6104 TERMALINE WATTMETER, compact unit measures 50 ohm output ranges 2-6-20-60 watts over 25-512 MHz. Has dual scale meter with Black-Red Scale switch and selectable X1 or X10 elements; N connection. 6x3.8x8.6, 8 lbs sh. Used, $115.00

ME-77 VOLT-OHMMETER

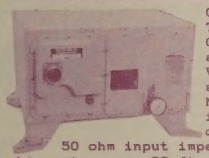
ME-77/URM-105C VOLT-OHMMETER, handy portable meter in ruggedized plastic case has 0-10-100-1000 VDC (20K /v) and VAC (1K /v) ranges; resistance 0-2K-20K-200K-2M-20M ohms. Response 30 Hz-10 KHz; has 3.5" dia FS=50 microammeter. Possible measurements to 100 amps DC using MX-1471 shunt and to 50 KV DC using MX-2005 multiplier (neither available). Requires two AA batteries (not included) for X1-X10-X100 ohms scales; 22.5 VDC battery (not available) for X1K-X10K ohm scales. With test leads and alligator clips; 6.6x4x3.3, 3 lbs sh. Unused, $22.95

ZENITH CRT



12" DIAGONAL GREEN VIDEO DISPLAY, p/o Heath/Zenith H/Z-100 microcomputer; includes MN1210P31AU CRT and PC board with adjustable Focus, Brightness, Vert-Size, and Width. Requires 12 VDC and external vert- & horiz-synch. No frame or AC supply. 13 lbs sh. #DJ12NK4, NEW, $12.95

1 KW COLLINS COUPLER



CU-714/SRA-22 AUTOMATIC ANTENNA COUPLER, Collins 180T-2; operates from common 115 VAC 50-60 Hz power and usable with 2-30 MHz transmitters having 500 watts average output or 1 KW PEP. 50 ohm input impedance; matches 35 ft whip antenna or 35 ft min. long-wire. Major components motor-driven vacuum capacitor UCSL-465-5, variable ribbon inductor, and blower in cast aluminum cabinet with large lead-in insulator on rear. Originally used with separate control unit (not available). DC output provided for monitoring capacitance and inductance. 11.5x18.9x20, 46 lbs. Used-complete, but not checked, $149.50 MANUAL, part-repro, $12. SCHEMATIC only, $4.

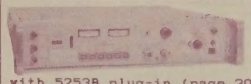
CU-714 "AS-IS" LESS CABINET, some units of above antenna coupler available "damaged" with broken connectors and external corrosion. Because less cabinet, they are less blower and lead-in insulator. "As-Is" units have good UCSL-465 & ribbon inductor. 8x6.8x15, 18 lbs sh. #CU714-DLC, $99.50

1 KW POWER AMPLIFIER

T-605/ARC-58 TRANSMITTER, functions as 1 KW nominal PEP (400 W PEP AM-SSB-Tone) 2-29.999 MHz linear amplifier when used with R-761/ARC-58 receiver which supplied 0.2 watt PEP input drive. Will operate as 1 KW linear with any 0.2 W input. Two stages of amplification using three 4CX250 tubes in P-A and tuned by servo amplifiers and motors. T-605 requires some frequency band information from a separate control box or panel that operator must provide. Also requires 115 V 400 Hz 3 phase for power supply which has output 2000 VDC 500 MA, 400 VDC, 27.5 VDC, 6.3 VAC, -40 to -80 VDC and 115 V 400 Hz 1 O for servo motors. With tubes 2/6CL6, 5896, 3/4CX250. 7.8x10.25x24, 55 lbs sh. Used, $325.00 Connector for T-605/ARC-58, $5.00 SCHEMATIC for T-605, $4.00 w/set purchase.

C-3141/TRC-75 CONTROL BOX for T-730/TRC-75, ground version of T-605 above. Provides On/Off, Channel and Mode selection, Gain control for the receiver and transmitter units of the TRC-75 system and appears to be usable with ARC-58 equipment. (Control box schematics essentially the same.) Requires 27.5 VDC. 5.3x5.8x7.8, 6 lbs. Used, $29.95 CONNECTOR for C-3141 control, $5.00. SCHEMATIC f/ C-3141 or C-1939/ARC-58, $2 ea

TRANSFER OSCILLATOR



HEWLETT-PACKARD 2590B TRANSFER OSCILLATOR, usable with HP-5245L frequency counter with 5253B plug-in (page 30, WS-87 Catalog) to extend counter's range to cover 500 MHz to 15 GHz. Phase-locking allows measurements equal to the external time base used. Fundamental freq range 240 - 390 MHz; internal 10 MHz reference. Also automatic search oscillator, AGC, FM discriminator, and envelope detector for FM deviation measurements. 16.8x3.5x16.3, 28 lbs. Used-reparable $250.

200 A TAP SWITCH

ELECTRO-SWITCH 2-POLE 4-POSITION TAP SWITCH rated 200 amp 500 VAC / 250 VDC. One pole "makes" circuit in positions 1 & 2; other pole "makes" in 3 & 4. 9.5x6.5x7.5, 16 lbs. #ES127401A, NEW $19.95

40 FT ALUMINUM MAST SET

AB-86/GRA-4 ANTENNA MAST GROUP, portable set forms 40 foot mast when the sixteen AB-85 36"Lx1.6" dia mast sections are stacked. Also includes 4 each guy ropes MX-381 (40'), MX-382 (31'), MX-383 (50'); 5 ea guy stakes and MX-378 guy rings; plus 1 ea MX-384 insulator base, AB-154 swivel mast base, MX-516 140' halyard, CP-12 counterpoise, HM-1 hammer, W-128 wire, and MX-857 adapter which allows additional 15 ft of heighth by use of MS-116-117-118 mast sections (not supplied). Set is contained in MX-1116 frame. 85 lbs sh (UPS in 2 pkgs). Used-excellent, $125.00

ROLLER INDUCTORS

PLATE ROLLER INDUCTOR, 26 turns #16 GA silver-plated wire 3.75"L x 2" dia coil for 14.5 uH max inductance. Has 115 VAC 400 Hz motor/rate generator (will run on 26 V 60 Hz) and 20K ohm multi turn pot geared together in feedback system. Shaft on inductor can be adapted to direct-drive operation. O/a 6.75x4x5, 3 lbs. #L13/ARC-58, used, $36.95

L5 ROLLER INDUCTOR, part of input tuning of ARC-58; 26 turns #18 silver-plated wire 2"L x 1.125" dia coil for 8.4 uH max inductance. Has 115 V 400 Hz motor/rate generator (runs on 26 V 60 Hz) and 20K pot in feedback system. 3/16" dia shaft adapts to direct-drive. O/a 6x3 x4.75, 3 lbs sh. #L5/ARC-58, used, $16.95

RG-213 & RG-214 COAX

High quality coax lengths which substitute for popular RG-8 cable. Each with type "N" connections; unused AT&T surplus: #RG 213-15, 15 ft. length of RG-213; 5 lbs sh. $8.95 ea, 2/$16 #RG 214-45, 45 ft. of RG-214 with silver-tinned conductor and double shield for superior performance; 15 lbs. $24.95 ea, 2/$45.

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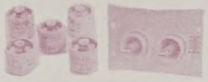
XMIT TUBE SOCKETS

TRANSMITTING TUBE SOCKETS, popular types for popular tubes; used and new as noted:
JOHNSON 209/210, large ceramic 4-pin for 811, 866, 3B28, etc; 1 lb. Used, $3.00
JOHNSON 237, ceramic 7-pin f/813. NEW, $5.
JOHNSON 275, ceramic 5-pin for 4-125A, 4-400A, and 3-500Z. Used, $8.00 ea
JOHNSON 112-215-2 silver-plated socket w/ chimney and 1100 pf screen grid bypass capacitor for 4X150/4CX250. Used, $15.00

TUBE SPECIALS

RCA 813, 100 W, unused $24.
RCA 3B28 RECTIFIER, unused-pull-outs, $8.00 each
4CX250R/7580, ruggedized 4CX250B, used-checked $36.
WE-310A used-checked $7.50
NL8031/5031 NIXIE, new, $16.
1N1150 SOLIDSTATE replaces 5Z3-80-82-83, $8.
1N1237 SOLIDSTATE replacement f/3B28, $13.

DOORKNOB CAPACITORS



CENTRALAB 850-SERIES 7.5 KV CAPACITORS designed for RF applications. Each 0.75" dia x 0.5" H; 5% NPO. Used, $3 ea 2 for $5. Specify: 10 pf, 25 pf, 50 pf, 75 pf, or 100 pf. Centralab 858, 1000 pf 7.5 KV, $4.00 ea

+ +

HV CAPACITOR ASSEMBLY, two cylindrical capacitors on bracket which is marked "500 pf, 15 KV WDC." These are not Centralab and may not be suitable for RF. However, should be useful for the high voltage experimenters! 2x3x2.3, #CAP-500-15KV, NEW $2.25 ea, 3/$5.

JOHNSON DESK MIC

We've bought more of these popular BASE STATION MICS made by Turner for E.F. Johnson. Has built-in preamp and large push-to-talk button. We've had to increase their price but now they include an installed cord and 5-pin connector. Black cast metal; 9 VDC required for preamp. 9.3"H, 3.8x6 base; 3 lbs sh. #JHSN-DM-87, unused, $19.95

GM MOBILE MIC

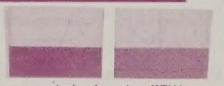
GM DELCO MICROPHONE for mobile communications; black with push-to-talk button switch, coil cord, and 5-pin male connector. Mic 3.3x2.3 x1.8, 2 lbs sh. #GM-DEL-MIC, NEW, $7.95 ea

COPPER HOOK-UP WIRE

Vinyl-covered hook-up wire, all stranded copper; no color choice. May not have continuous lengths over 1000 ft.

#10	$14/100'	$100/1000'	
#14	$6.50/100'	$42/1000'	$185/5000'
#16	$4.50/100'	$28/1000'	$110/5000'
#18	$3/100'	$18/1000'	$60/5000'
#20	$2/100'	$12/1000'	$30/5000'

MODUTEC PANEL METERS



Nice contemporary 3"W x 2.25"H panel meters by Modutec for your power supply projects.
Buy individually or as matched set: NEW!
#MOD-25025-VD, 25-0-25 VDC, $5.95 ea
#MOD-10010-AD, 10-0-10 amps DC, $6.95
* Modutec MATCHED SET of above, $11.00 *

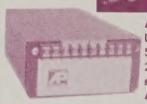
- -

WESTON 506 PANEL METER, 0-25 amp DC full scale; 2.5" round. Unused, $7.95 ea

COMPAQ SWITCHERS

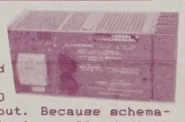
COMPAQ SWITCHING POWER SUPPLIES from the most successful IBM PC clone; removed from equipment. "AS-IS, not tested" (but cheap!): $5.95 ea, 2/$10. #COMP-PS-1982 from early portable; outputs +5, -5, +12, -12 VDC. 7.4x5.4x2.4, 3 lbs. #COMP-PS-200W, later 200 W supply w/outputs +5, -5, +12, -12 VDC; 9x6x2, 4 lbs.

DC TO DC CONVERTER



ADTECH DC to DC CONVERTER UNIT, 28 VDC input produces 5 VDC 10 amp and +/-15 VDC 2 A output. Rugged modular style; 2.3x4.8x10, 5 lbs sh. Adtech #3DD5-15N, NEW $14.95

12 VDC LAMBDA SUPPLY



LAMBDA DC REGULATED POWER SUPPLY, supposedly a special cold environment (-40°C) version of LNS-P-12 with reduced output of 12 VDC +/-5% 5.0 amps @ 71°C from 120 VAC +/-10% 60-100 Hz input. Because schematic differences are minimal, we "loaded" the supply and found it to have nearly the same output as the standard LNS-P-12 output of 7.3 amp @ 71°C or 14 amp @ 40°C. Regulation 0.1%; screwdriver Voltage Adjust. Can be rewired for 215-254 VAC input; 11x4.9x4.4, 16 lbs sh. #LNSP12-8182, NEW w/book, $45.00

DIODES & FILTER CAPS

DIODE & FILTER ASSEMBLIES removed from 1 KW transmitter. Usable as they are or for parts!
HV DIODE 3 PHASE "Y" BRIDGE from 2000 VDC supply. 6 submodules each with ten 1N1095 diodes & 5 capacitors series-parallel. 3.3x2.3x3.7, 2 lbs sh. #1540/ARC-58, $6.00
INPUT FILTER SECTION has 31/ 1000 pf silver plated stud feed-thru capacitors plus 0.02 mf disc caps & chokes. Cheap feed-thru's! 7.5x1.8x3.3, 2 lbs. #CFIL/ARC58, used, $9.

* *

0.02 MF 120 KV-WDC PLASTIC CAPACITOR, 17.5"H x6.3"x4.5", 18 lbs sh. Unused, $150.

UHF MODULES

MODULES removed from c R-540/ARR-40 265-284.9 MHz aircraft receiver. Experimental potential by themselves or together. Connector plugs and schematics included:

+ + + + + + + + + +

MAIN RECEIVER MODULE includes 20 CR-23 crystals for the twenty 1 MHz/step channels. Has 2 RF stages, Injection Osc, Injection Amp, Tripler, and HF Mixer. Mixer output 20.75 MHz; with tubes 3/6AK5, 2/5840, 6021. Requires 120 VDC; filaments need rewired for 6.3 V. 4.5x3x5. #RF-REC/R540, $7.95

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GUARD RECEIVER/ IF MODULE, single channel (238-248 MHz) xtal-controlled receiver with 1.85 MHz IF output from 20.75 MHz input. Tubes 2/5840, 3/6021. Requires 120 VDC; filaments need rewired for 6.3 VAC. 4.5x4.5x1.5, 4 lbs sh. #GUARD/R540, $6.95

* *

SET both #RF-REC/R540 & #GUARD/R540, $10.

9.5 VDC ADAPTER

AURORA TOY WALL TRANSFORMER, changes 120 VAC to 9.5 VDC 350 ma output. 6' cord with slide lugs; 2 lbs sh. #AUR-95V34VA, $2.95; 2/$5.00

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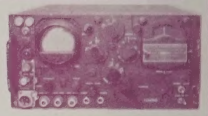
CERVCO AC ADAPTER, 11.5 VDC 175 ma output; 6' cord w/o lugs. #CER-11.5V, $2.50; 2/$4.

30-1000 MHZ RECEIVER



R-484/APR-14 AIRBORNE PANORAMIC SEARCH RECEIVER covers 30-1000 MHz AM-FM in bands 30-210; 210-400 and 400-1000 MHz; has 3" dia CRT for panoramic display of these signals. RF bandpass 6 MHz @ 3 db points. Sensitivity: 11 uv max (30-100MHz), 13 uv (100-300), 16uv (300-1000). Spurious response 45 db down; image reject 60 db down. IF attenuator 0-74 db in 6 db steps. CRT calibration +3 MHz center freq; video response +1 db, 200 Hz-2 MHz. 600 ohms audio; 46/ 7~,9-pin mini and octal tubes plus 3JP1, 6F4, and 5678. Req 115 VAC 380-1000 Hz and 24 VDC 20 W. 8x15.5x20, 90 lbs. Used-reparable $250; MANUAL repro $15.

RF WATTMETER & COUPLER

RF WATTMETER with DIRECTIONAL COUPLER CU-987/ GRC-110A, p/o AN/TRC-75; designed for 100 and 1000 watt full scale readings. Directional coupler connects into RF line and provides four outputs: 100 and 1000 watts Forward and Reflected. Reverse function used 100 W range and Forward used 1000 W range in original configuration. Panel has 2.5" dia meter calibrated for 100 and 1000 watts, 5-reed 100-130 V 400 Hz freq meter, two SPST panel and two rotary switches and 150 ohm pot. With schematic. Panel 7.3x5.5x2.5, coupler 4x2.5x2; 4 lbs. #RFMTR/TRC75, used, $24.95.

HS-16 HEADSET

HS-16A Headset, popular older communications type; 520 ohm (in series) input impedance and 100-1400 Hz response. Has adjustable padded HB-1 headband and 54" cord with two pin plugs. 3 lbs sh. Unused $6.95.

R-390A R-392 R-648 PARTS

REPLACEMENT ASSEMBLIES & PARTS for the popular military receivers R-390A (A), R-392 (B), and R-648/ARR-41 (C). SPECIFY receiver type and chassis designations of parts!

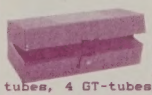
- - - - - - - ASSEMBLIES - - - - - - -

AUDIO SECTION: $18(A), $30(B),	$15(C)
CRYSTAL CAL CHASSIS,	$30(B)
CRYSTAL OSCILLATOR (less crystals)	$20(A,B)
DYNAMOTOR POWER SUPPLY,	$20(C)
IF SECTION, CHECKED: $150(A), $35(B)	$90(C)
RF AMPLIFIER SECTION,	$15(C)
RF DECK, complete: $140(A),	$95(B)
RF/IF TUNER LESS VFO,	$90(C)
RF OSC ASSY LESS CRYSTALS,	$15(C)
SPECTRUM GENERATOR,	$15(C)
VFO, (COLLINS): $60(A,B),	$40(C)
VFO, (NOT COLLINS),	$40(A,B)

- - - - - - - SMALL PARTS - - - - - - -

ANT TRIM KNOB, small,	$1.25 ea (A,B,C)
AUDIO TRANSFORMERS,	$4.00 ea (A,B,C)
BAND XTALS $10 ea (A,B,C); 5/$35 (f/one Rx)	
BEAT FREQUENCY OSCILLATOR,	$15.00 (B)
COUNTER DIAL,	$15.00 (A,B,C)
HANDLES, per pair	$7.00 (A,C)
200 KHZ CRYSTAL,	$18.00 (A,B)
MECHANICAL FILTER 1.4 KHz,	$45.00 (C)
MECH FILTER 2 or 4 KHz(A), 6KHz(C),	$35 ea
MECHANICAL FILTER 8 KHz,	$27.00 (A)
MECHANICAL FILTER 16 KHz,	$20.00 (A)
MHz/KHz KNOB: $6 (A), $4 (B),	$5 (C)
PLUGS TO MAKE CORDS W/HOODS,	$6/PR (A,B,C)
RF, IF, AUDIO GAIN POTS,	$2.00 ea (A,B,C)
RF-IF-AUDIO KNOB mid-size,	$1.50 ea (A,B,C)
RF/IF TRANSFORMERS,	$8.00 ea (A,B,C)
SLUGS, $3 ea (A,B,C); with SPRINGS,	$4 ea

SPARES CASE



CY-1031 SPARES CASE, originally used with GRR-5; space for 7- and 9-pin mini tubes, 4 GT-tubes, 2 vibrators, and fuses. Hinged w/fastner; 3x9.8x4, 3 lbs. Used, $4.

F87-P38

MINIMUM ORDER $5.00 PLUS SHIPPING CHARGES

RF TRANSMISSION MONITOR

CARRIER MONITOR couples into antenna transmission line and indicates proper transmission by providing DC and audio current to remote position. Designed to operate with 2 to 30 MHz transmitters having 500 to 50K watts output. Input and output impedance 600 ohms. Includes Sensitivity trimmers for 5 KW-6 KW and 2 KW-50 KW and two 3 pf 15 KV vacuum capacitors for coupling to transmission line. Also tubes 0A2, 6AL5, 6J6, 6X4, and manual. Requires 115/230 VAC 60 Hz; 6x8.5 x6.3, 13 lbs sh. #CAR-MON/VC, unused, $14.95

MOTORS

12 RPM DC DRIVE MOTOR ASSEMBLY with Globe 27.5 VDC 1/100 HP 15000 RPM motor, 26.5 VDC clutch & geartrain which reduces speed to 12 RPM. Strong torque! W/schematic & plug. 4.5x1.5x4.5, 2 lbs. #12DRV/R540, used $8.95

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27.5 VDC REVERSIBLE PM GEAR MOTOR, 85 RPM no-load speed, 1/4 duty cycle; estimated 75 RPM 100 oz/in torque when under load. Shaft 1/2"L x 5/16" dia with gear. O/a 4x 1.3x1.3, 1 lb. Globe #5A1231, used, $12.95

20-60 RPM GEARMOTOR, 28 VDC 0.5 amps reversible PM-type. Has mounting collar and tape recorder reel bobbin on shaft. Shaft 3/8"L X 3/16" dia w/o bobbin. 4"L X 2" dia; 2 lbs. #220504/UNH-6, unused, $12.95

500 KHZ MECH FILTERS

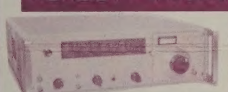
RECEIVER CIRCUIT BOARD with two 500 KHz Collins mechanical filters: #F500Z10 (USB) and #F500Z11 (LSB) plus various transistors, etc. Filters 2.3"L x 0.38" dia; board 4.3x 3.5, 1 lb sh. #RXB-2FIL-500, used, $12.95

JENNINGS CAPACITORS

JENNINGS VACUUM VARIABLE CAPACITORS, all ratings "peak"; 5 ;bs sh. Limited supply!

#UCSH-50-45,	10-50 pf 45 KV,	unused,		$165.
#UCS-300-7.5,	10-300 pf 7.5 KV,	unused		$100.
#UCS-300-10,	10-300 pf 7.5 KV,	used,		$110.
#USCL-465-5,	5-465 pf 5 KV,	used,		$75.
#UCSH-500-15,	25-500 pf 15 KV,	unused		$175.

HEWLETT-PACKARD COUNTER



HP-5245L ELECTRONIC COUNTER, popular solid-state 7-digit plug-in counter with HP-5253 plug-in allowing frequency measurement upto 500 MHz. Wide variety of plug-ins offered by HP makes this a very versitile unit. Sensivity 100 mv; gate 1 usec to 10 sec in decade steps. Requires 115 VAC 60 Hz; 5.3x16.8x18.3; 36 lbs sh. Used-reparable w/book, $250.00

HP-5245L MAINFRAME only, usable to 50 MHz, used-reparable with book, ~~$155.00~~ $135.00

FSK CONVERTER

CV-116/URR FSK CONVERTER for use with receivers having final IF's from 450 to 510 KHz such as R-220, R-388, R-390A, and SP-600. Converts frequency-shift signals into DC pulse that key the energizing of circuits of teleprinters; translates at 100 dot Hz/sec. Unit can be used with two receivers. Channel A IF center freq 50 KHz; Channel B 29.3 KHz. Input FS range 150-1000 Hz, 100 uv minimum; 50 ohm impedance. Separate control unit required between CV-116 and teleprinter to match output-input signals. Requires 115 VAC 60 Hz. 8.8x17x18, 80 lbs sh. Used-reparable, $100. MANUAL, partial, $10.

PRT-4A TRANSMITTER

AN/PRT-4A MINIATURE HELMET TRANSMITTER, designed to operate on two preset channels between 47 and 57 MHz. Output 450 MW (Ch 1), 50-250 MW (Ch 2); 150 Hz modulation disables squelch of PRC-25-77. Also 150 Hz tone output. Requires 12 VDC originally supplied by BA-399 battery (not available); CR-81 crystals not available. With 24" collapsible antenna and battery box; o/a 9x2.6x2, 2 lbs sh. Used, $39.50

AN/PRT-4 "AS-IS" for parts, less antenna, battery box, and crystals, $16.95.

AN/PRR-9 HELMET RECEIVER, companion to PRT-4 -4A, with antenna and headset, used, $37.50

AN/PRR-9 "AS-IS" CHASSIS only for parts, $10.

OPERATOR'S MANUAL f/ PRT-4-4A & PRR-9, $7.50

MAINTENANCE MANUAL, partial repro, $15.00

PRC MODULES

Modules from RT-505/PRC-25 and RT-841/PRC-77 transceiver; removed from sets and/or test kits. Used, with covers but not tested, $7.50 each.

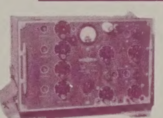
\+ +

A-1 DC-DC Conv	A-15 IMC Spec Gen
A-3 Receiver	A-16 Volt Reg
A-4 Receiver	A-17 Phase Comp
A-5 Receiver	A-18 FSS IF.
A-6 Trans IPA	A-19 Network
A-7 Trans	A-21 Receiver
A-8 Trans	A-22 Limiter
A-11 Disc	A-23 Tone Gen
A-12 2D Mixer	A-24 Tone Squelch
A-13 53 MC Fil	A-25 Rec Audio
A-14 1ST Mixer	

A-38/PRC-77 Transmitter VFO, $6.00 ea

A-40/PRC-77 Interval Oscillator, $7.50 ea

BENDIX TRANSMITTER



BENDIX TA-12C TRANSMITTER, 40 watts Phone-CW-MCW covering 300-600 KHz and 3-12 MHz in four bands. Each band has its own oscillator, osc-tuning, and loading controls; 0-5 RF ammeter monitors antenna current. Tubes 4/12SK7 and 3/807. Requires 400 & 260 VDC externally modulated and 6.3 V 3 A originally supplied by MP-28BA power supply (not available). 10.5x15x11, 45 lbs. Used-excellent, $75.00

MANUAL for TA-12C, partial-repro, $10.00

TA-12G Tx, like "C" except to 9 MHz, $59.50

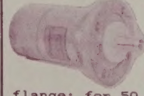
COLECO DRIVE SUPPLY

COLECO DISK DRIVE POWER SUPPLY for ADAM system; transformer type with outputs +5 V 3 amp, +12 V 2.9 A, -5 V 200 ma, and +18 V inductive 1 A. 115 V 60 Hz input. With cords and On-Off switch. 11x4x8, 10 lbs sh. #COL72559, unused, $12.95

CIRCUIT SUPPLY MODULE

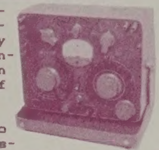
POWER SUPPLY MODULE with 3-conductor cord, fuse, 100/115 V input switch, and 50% Voltage switch. Outputs: 18 V 350 ma and 30 VCT 600 ma. 50% switch results 9 V 350 ma and 15 VCT 600 ma. 6x4 x2.3, 4 lbs. #PSM-4404-87AD, used, $4.95

ANDREWS 1-5/8 FITTING



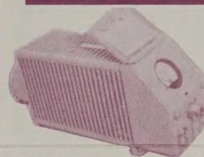
ANDREWS TYPE 83799, a special plated connector similar to 87R for HJ7-50A Heliax cable as used in medium power HF, AM, and FM installations. Has 1-5/8" EIA flange; for 50 ohm copper cable. Includes inner connector, "O" ring, silicone grease, and hardware; 6lbs. #83799, NEW, $20.00

GR-1650A RLC BRIDGE



GENERAL RADIO 1650A PORTABLE IMPEDANCE BRIDGE, battery-power unit with handy flip-tilt case measures Inductance 1 uH to 1100 H in 7 ranges, capacitance 1 pf to 1100 mf in 7 ranges, Storage Factor Q @ 1 KHz 0.02-10 (series L) or 1 to 1000 (parallel L), and Dissipation Factor D @ 1 KHz 0.001-1 (series C) or 0.1-50 (parallel C). Has internal 1 KHz generator; with manual. Requires four D cell batteries (not supplied). 12.8x12.5x7.8, 21 lbs sh. Used-reparable, $195. Checked, $250.

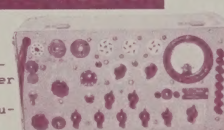
20-1400 MHZ WATTMETER



TS-118A WATTMETER, thermocouple type measures RF power over 20-1400 MHz AM-FM-CW in ranges 20 to 100 MHz (2-300 W), 100-300 MHz (2-500 W), 300-700 MHz (2-250 W) and 700-1400 MHz (2-125 W) depending on thermocouple. DC millivoltmeter indicates voltage developed and the reading is translated in RF watts by calibration chart. SWR less than 1.25:1; Input impedance 50 ohms. Can be used as dummy load with proper adapter (not available). Includes thermocouples MX-1781-1782-1783-1785, tuning shunt MX-1784, connector adapter UG-999, and transit case. 8.5x6x20.5, 48 lbs. Used, $185.00

MANUAL for TS-118A, partial repro, $8.50

TV-7 TUBE TESTER



TV-7 TUBE CHECKER, portable unit tests most military and older commercial receiving and low-power transmitting tubes. Indicates dynamic mutual conductance, emissions, gas, noise, and shorts. Test sockets for octal, loctal, 4-,5-,6-,7-pin, 7- and 9-pin miniature, acorn, flat and round subminiature tube base sizes. With tube test data book. Requires 115 VAC 50-1000 Hz. 6.3x8.5x15.8, 22 lbs sh. Used-reparable, $45.00; Checked, $75.00

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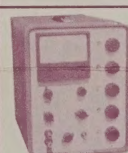
TV-7D, later-model TV-7 (as available): Used-reparable, $60.00; Checked, $95.00

MANUAL for TV-7,A,B,D; partial repro, $10.

DIFFERENTIAL VM



FLUKE 823A AC-DC DIFFERENTIAL VOLTMETER, 0.01 to 500 volts AC-DC; null ranges +/-10, 1, 0.1, 0.01, and 0.001 V AC-DC; +/-100 and 0.0001 V AC only. AC response 20 Hz to 10 MHz. Design accuracy +/-0.01% DC; +/- 0.1% AC. Needs standard cell for reference and 115/230 VAC 50-60 Hz; 12.3x9.5x16, 35 lbs sh. Used-reparable, $59.50

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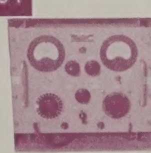
FLUKE 803B, similar to 823A but null range to 0.001 min; +/-0.05% DC, 0.2% AC, $39.50

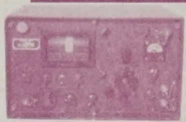
MANUAL for 803, partial reproduction, $10.

1 - 10 GHZ TEST



AN/USM-96 RF POWER TEST SET measures output from 1 to 10 GHz CW, modulated or pulsed. Power input 100 MW to 5 watts using 94CEL (to 1 MW) or 94CEH (to 50 MW) bolometers. Separate CN-540 & CN-541 attenuators extend measurements to 100 MW & 5 W respectively. Has 3.5" dia meters for 0-50 Relative Power and Center Scale Balance. Bolometers, attenuators, MX-2683 bolometer mount, operator's manual included. Requires 115 VAC 50-1600 Hz; 13x13x14, 50 lbs. Used-reparable, $145.

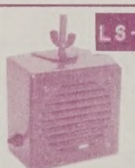
R-901/GR DF RECEIVER



R-901/GR DF RECEIVER, 0.54 to 20.5 Mhz AM-CW in bands 0.54-1.15, 1.1-2.36, 2.25-4.84, 4.65-9.9 and 9.5-20.5 MHz. 455 KHz IF; bandwidth 1.5 or 4 KHz using two Collins mechanical filters. Built-in crystal calibrator and controls for BFO, RF-AF Gain, Bandwidth, Power Select, Power Monitor meter, Band Switch, Ant Trim. Antenna inputs for 50 ohm directional loop and conventional whip; 600 ohm audio output. Requires 24 VDC or 1.5 V 445 ma and 45 v 30 MA; 11 sub-mini tubes. 8.8x14.5x9, 27 lbs. Used-reparable, $165.00 CHECKED, $245. MANUAL, partial repro, $12.

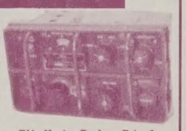
FAIRCHILD 767H SCOPE, rackmount with DC-50 MHz Dual-Trace 76-08 and Calibrated Delayed Sweep plug-ins; 50 lbs. Reparable, $295.00
GENERAL RADIO 1026 RF GENERATOR, 9.5-500 MHz AM-CW; 1 MHz cal., 90 lbs. Reparable $450.
TEKTRONIX 434 STORAGE SCOPE, portable DC to 25 MHz dual-trace; full, upper, or lower screen storage. With book, ~~$1500.~~ $1250.
TEKTRONIX 564 SPLIT-SCREEN STORAGE SCOPE w/ DC-10 MHz Dual-Trace 3A6 and Delay Sweep 3B3 plug-ins; 60 lbs. Reparable, $495.00
* *
RYCOM 2174A VOLTMETER-VLF RECEIVER, 0.3 to 420 KHz AM-LSB-USB; built-in speaker and book; 27 lbs. Reparable $135. Checked $195.
* *
AT-197/GR DISCONE ANTENNA for 225-400 MHz, 12-rod 26" dia umbrella-shape for HN connection & mount base; 14 lbs sh. Used, $40.

LS-454 LOUDSPEAKER



LS-454 LOUDSPEAKER in rugged cast aluminum housing. Similar to LS-166 but does not have Hi-Lo switch and cord has U-229 connector for use with PRC-25/77 and VRC-12 family equipment. 4" dia speaker has heavy duty magnet and 600:8 ohm audio transformer. 5x5 x3.3, 5 lbs sh. Used w/wall bracket, $16.00

BC-1306 RECEIVER

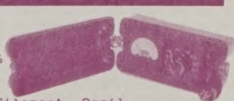


RECEIVER SECTION from BC-1306 Rx-Tx, predecessor of RT-77/GRC-9; covers 3.5 to 6.5 MHz AM-CW-MCW. Has 456 KHz IF; 200 KHz crystal calibration points. Controls for Hi-Med-Lo Sensitivity, Volume, Tuning, Phone-CW-Net-Cal, Dial Light and two Phone jacks. With tubes 2/1L4, 2/1R5, 1S5, 3Q4. Requires +105 VDC 20 ma and 1.5 VDC 450 ma supplied by BA-48 battery listed below. Some minor surface corrosion; 5x9x6, 9 lbs sh. #RX/BC1306, used, $29.95 SCHEMATIC, $2.00; BA-48 BATTERY, $8.95 AN-160 LONG-WIRE ANTENNA, $12.95

AB-719 SPRING BASE

AB-719/VRC SPRING ANTENNA BASE, designed to mount on MX-2799/VRC matching unit but will "bolt" to any flat surface. Has BNC RF connection; mates to AT-1096/VRC 52" mast section which screws into AT-1095 64" top section. Mast sections not included. 4.8x9.3x3, 4 lbs sh. Used, $7.95 AT-1096 MAST, used, $15; AT-1095, $12.50

PRC-6 CHANNEL ALIGNER



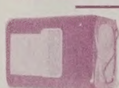
ID-292/PRC-6 CHANNEL ALIGNMENT INDICATOR, plugs into RT-196 and indicates relative level voltages for B+ Filament, Oscillator Injection, Limiter, Discriminator Output, and P-A Grid. Also P-A Current and Calibrate Adjust. Unit is basic VTVM with 1.75" sq. FS=500 ua-meter and 5678 tube. Power from set under test. 2.5x5x2.5, 3 lbs sh. Unused with book and spare 5678, $28.95

BA-38 BA-48 BA-270

MILITARY BATTERY BUY-OUT! We just purchased tons of equipment batteries from the government; all are unused. Use them as intended or for your own special needs. Not rechargeable.

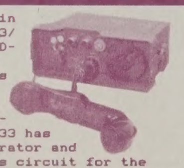
* * * * * * * *

BA-38 for SCR-625 mine detector (p 6 WS-87) or BC-611 walkie-talkie; 69 N-cells, 103.5 VDC. 9/81 date; 1.3x1.3x11.7, 1.6 lbs, $10.
BA-48 for Rx section of RT-77/GRC-9 (p 6 WS-87) or BC-1306; 6 CD & 60 A-cells, 1.5 & 90 VDC. 10/81 date; 10x2.2x4.8, 7#, $8.95
BA-216, twelve "F" cells, 4.5 VDC; 4/80 date code. 3.9x3.9x6, 4.5 lbs sh, $3.00
BA-232, 15 N-cells, 22.5 Volts; 4/83 date code. 1.6x1.3x3, 0.3 lbs; $1.25 ea, 5/$5.
BA-270 for RT-196/PRC-6 walkie-talkie; 24 AA, 93 N-cells, 1.5, 45, 90, -45 VDC. 9/83 date; 2.8x2.1x7.4, 3 lbs. $8.95 ea, 12/$95.
BA-279 for PRC-8-9-10 Rx-Tx; 8 CD, 45 B, 45 AA, 8 C-cells, 1.5-67.5-135--6 VDC. 5/79 dates; 8.3x2.3x8.3, 7 lbs; $7.95 12/$72.
BA-291, 200 FL-2 cells, 300 VDC; 3/80 date. 2.6x2.2x3.8; 2 lbs, $3.50 ea, 2 $6.00
BA-314, 45 FL-3 cells, 67.5 VDC; 6/81 date. 2.8x1.3x2.5, 1 lb; $1.25 ea, 12/$10.
BA-406, 2 D-cells, 3 & 1.5 VDC; 7/82 date. 2.6x1.4x3.2, 1 lb, 2/$1.50 ea
BA-802, 2 F-cells, 1.5 VDC; 6/80 date. 2.6x1.4x4.3, 1 lb, 2/$1.50
BA-807, 30 D-cells, 22.5 & 45 VDC; 1/82 date. 7.8x7.1x2.9, 9 lbs; $8.50 ea, 2/$15.
BA-1277, 3 R-42R mercury cells, 1.3 VDC; 5/83 date. 2.4x1.3x4.2, 2 lbs, $2.50 ea
BA-1393, 12 RM-3WA mercury cells, 13 VDC; 2/82 date. 5x1" dia, 1 lb; $2.00, 3/$5.00



GOULD NICKEL-CADMIUM BATTERY, rechargeable vinyl-covered multi-cell rated 12 VDC 4.0 A-Hr; wire leads. 5.9x3.5x2.6 3 lbs sh. Used-checked $14.95

FIELD PHONE-CONTROL SET



We've taken two items in plentiful supply, C-433/GRC CONTROL & H-33 HANDSET, and have put them together to function as a low cost field telephone compatiable with EE-8 and TA-43/312 two-wire field phones. C-433 has handcrank ringing generator and incoming call bell plus circuit for the H-33. Requires two "D" cell batteries (not supplied). C-433 3.5x8.3x7.2; 10 lbs sh. #C433-H33, used, $24.95; CW-189 CANVAS BAG, holds two C-433's & two H-33's, used $4.50

AE PAY TELEPHONES

AUTOMATIC ELECTRIC CHROME PAY TELEPHONES, the genuine glitzy chromed-finish article refurbished with microcircuit electronics, and FCC approved. These working (quarters only) units are intended for use again as public pay phones. Each are set for local calls only with variable call time control, free operator and 911 emergency access, rotary dial and modular jack. Heavy cast-metal construction including keyed coin box. De-regulation of the telephone industry allows businesses and individuals in many states to own and operate pay phones for profit. There are guidelines to be met and local monthly tariffs to be paid but income in excess of the tariff belongs to the phone owner and not the phone company. Gas station-, restuarant-, laundramat- and similar high-traffic business owners especially stand to profit by owning pay phones! Consult your phone utility regarding pay phone ownership requirements. 17x6.5x5.8, 50 lbs. #AE-PP-CHR, chrome with info, ~~$525.~~ $425.00 #AE-PP-BC, beige top/chrome bottom, $375.00

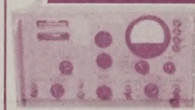
PRICE REDUCED

R-391/URR 0.5-32 MHz RECEIVER w/24 VDC preset drive. Requires 115 VAC 60 Hz; 90 lbs sh. Reparable w/meters, $300. MANUAL repro, $15.

BURIED WIRE LOCATOR

AT&T MODEL 170A BURIED SERVICE WIRE TEST SET, portable field unit designed to test and trace path of buried telephone wires and to locate wire breaks or line "faults". Consists of 172A Test Set-Transmitter which provides line reference signal and functions Off/Test, Ohms, Trace, Pinpoint and and 171A Test Set-Receiver which "tunes" the reference signal on null meter to find the line or fault. Requires AT-8681 ground probe (not available) and two 6 VDC lantern calls and three 9 VDC transistor batteries (not supplied). With carrying case & operator info; 12 lbs. Used, $59.50

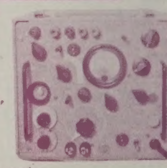
DISTORTION ANALYZER



TS-723 DISTORTION ANALYZER, similar to Hewlett-Packard 330B; used to evaluate output of audio amplifiers. Measures harmonic distortion as percentage or in decibels and noise level in RMS or DB values referenced to 1 MW across 600 ohms. Response 20 Hz to 20 KHz; distortion sensitivity as low as 0.3% of meter full scale. Noise amp gain: 40 db +/-1 db from 20 Hz-15 KHz. Set-level amp gain: 20 db +/-1 db 20 Hz-20 KHz. Input impedance 200K ohms shunted by 40 pf. Built-in AC VTVM has ranges 0.03-300 Vrms in 8 steps; -30 to +50 db in 8 steps. VTVM response 10 Hz-100 KHz. With tubes OD3, 5Y3, 3/6AC7, 2/6J5, 4/6SJ7, 6Y6. Requires 115/230 VAC 50-1000 Hz. 10.5x 19x12, 50 lbs sh. Used-reparable ~~$165.~~ $145 Checked, ~~$210~~ $185. MANUAL, part-repro $10.

PRICE REDUCED

UNIVERSAL BRIDGE



ZM-11 TEST SET, portable bridge unit designed to measure capacitance, inductance, resistance, transformer turn ratio, dissipation factors of inductors and capacitors, and storage factors of inductors--all at 1 KHz test frequency. Also insulation and leakage of electrolytics in circuit using 10.75 MHz test frequency. Capacitance range: 10 pf-10 mf, 1 mf-100 mf, 10 mf-1100 mf. Inductance: 0.1 mH-1 H, 1 H-10 H, 10 H-110 H. Insulation DC res: 200-500 megohm, 5K-10K meg ohm. Transformer turn ratio: 0.01-110 (K=1). DC leakage: 0-1-5-25 ma. Dissipation: 0-0.06 (10 pf-0.1 mf), 0-0.6 (0.1 mf-1100 mf). Q Storage: 0.5-20. DC applied to electrolytics is 500 VDC. Uses test leads with standard banana jacks. (Leads not available.) W/tubes 6E5, 6J6, 2/6AV6, 6AG5, 6AL5, 6AQ5, and 6X4. Requires 115 VAC 50-1000 Hz; 5.8x9x9.8, 18 lbs. Used-reparable, $85. Checked, $115.00 MANUAL for ZM-11, partial repro, $8.50

H-P VHF GENERATORS

HEWLETT-PACKARD 608-Series VHF SIGNAL GENERATORS, AM-Pulse-CW emission; 400 or 1000 Hz modulation. External modulation 20 hz to 20 KHz, 0 to 95%. Large 3.5" dia meters indicate Percent Modulation and Output Volts-DBM. Require 115/230 VAC 50-400 Hz; 16.4x13.3x21, 72#.

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HP-608C, features broad 10-480 MHz range and high output of 0.1 uV to 1 V into 50 ohms; frequency accuracy +/-1%. Reparable, $215.00

HP-608D, 10-420 MHz range with built-in 1 & 5 MHz calibrator; Reparable w/book, $250.

HP-608F, later model covers 10-455 MHz with 0.1 uv to 0.5 V output. Built-in crystal calibrator provides check points every 1 MHz upto 270 MHz and 5 MHz check points above; accuracy +/-1%. 608F has phase-lock frequency control capability if used with HP-8708A Synchronizer (not available). Checked, $425.